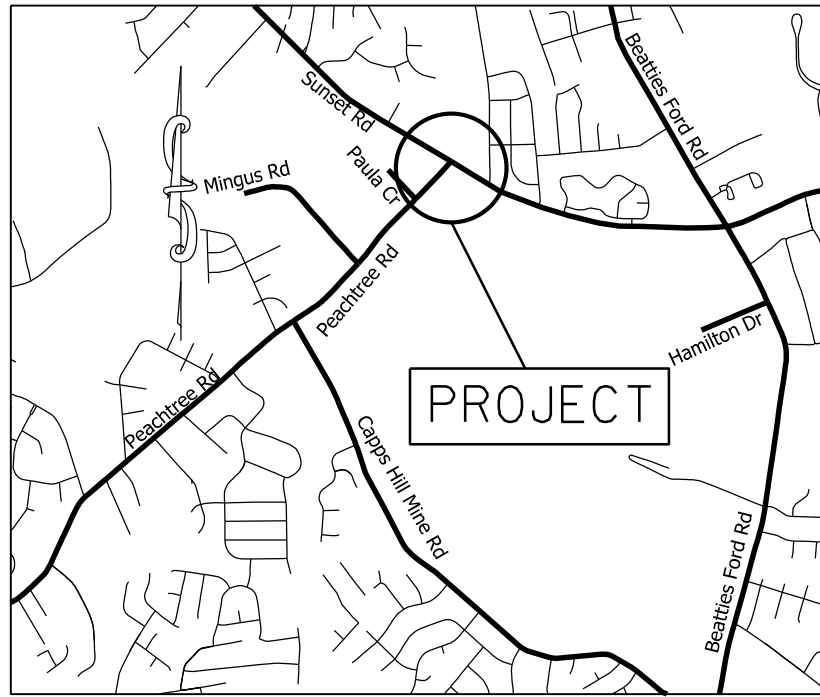


**PROJECT: 44856.3.19 TIP: W-5710S**



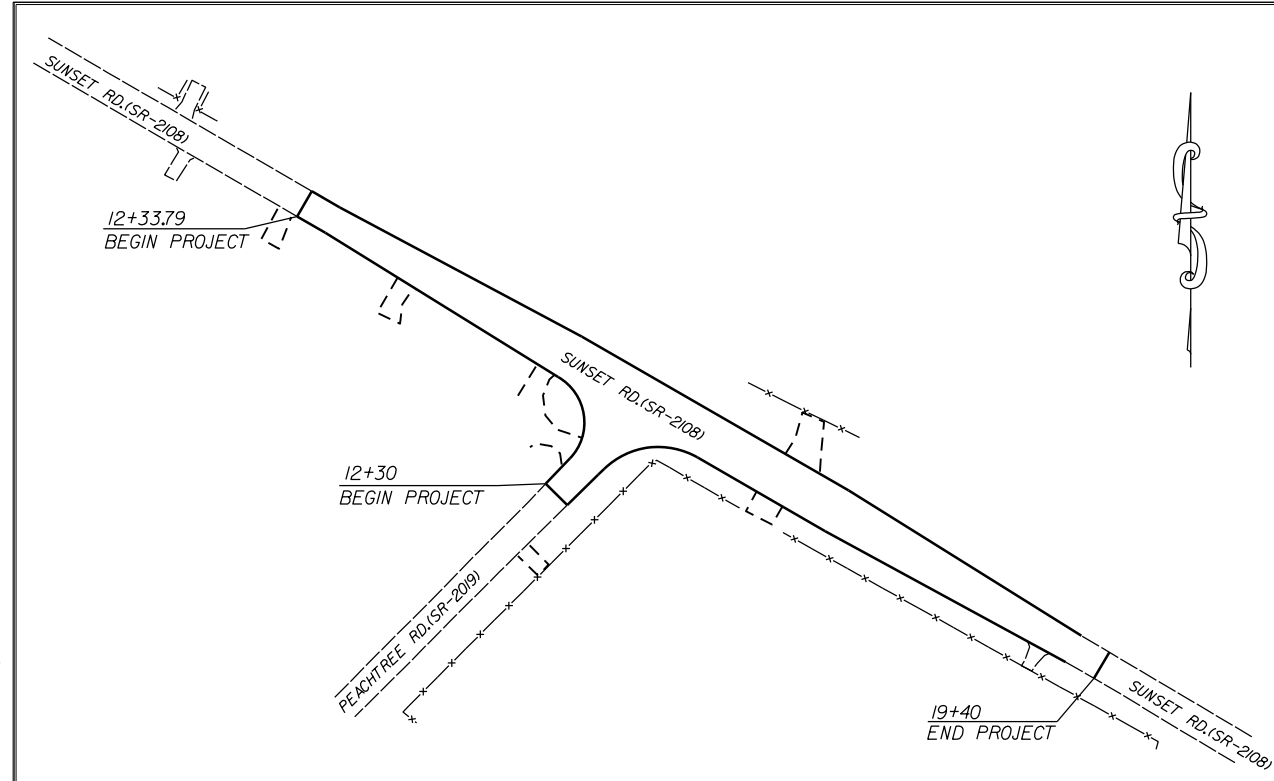
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**MECKLENBURG COUNTY**

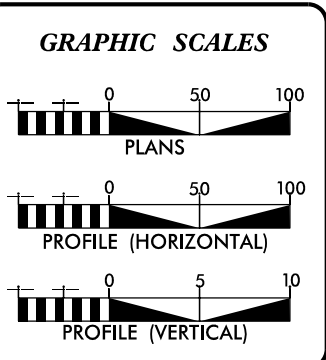
**LOCATION:** INTERSECTION OF SUNSET RD. (SR-2108)  
 AND PEACHTREE RD. (SR-2019)

**TYPE OF WORK:** GRADING, DRAINAGE, MILLING, PAVING, THERMOPASTIC PAVEMENT  
 MARKINGS, AND TRAFFIC SIGNAL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.19	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.19	HSIP-2108(002)	P.E.	
44856.2.19	HSIP-2108(002)	R/W	
44856.3.19	HSIP-2108(002)	CONST.	



**CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD III AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS**



**DESIGN DATA**

ADT \_\_\_\_\_ = \_\_\_\_\_

ADT \_\_\_\_\_ = \_\_\_\_\_

DHV = \_\_\_\_\_ %

D = \_\_\_\_\_ %

T = \_\_\_\_\_ %

V = \_\_\_\_\_ MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 44856.3.19 = 0.15 MILES

TOTAL LENGTH OF STATE PROJECT 44856.3.19 = 0.15 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 DIVISION TEN  
 DIVISION DESIGN / CONSTRUCT UNIT

---

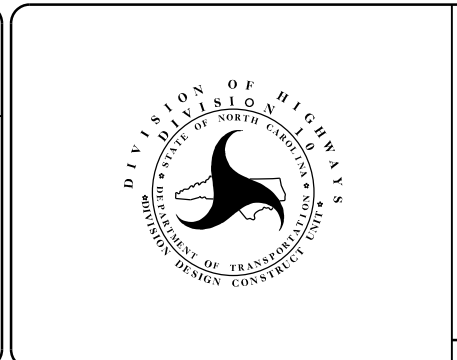
2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 FEBRUARY 2022

**LETTING DATE:**  
 MARCH 15, 2023

**DONALD HARWARD**  
 PROJECT ENGINEER

**JASON BROOKS**  
 PROJECT DESIGN ENGINEER



**ROADWAY DESIGN ENGINEER**

SEAL 034357

DESIGNED BY: MICHAEL ERDMAN

A92E75CC0FFB43B...

SIGNATURE

# SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
44856.3.19	1A
F.A. PROJECT NO. HSIP-2108(002)	



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
405			571973.1992	1441765.4371	818.45	14+82.46	35.10 RT
2			571972.1758	1441888.0403	816.96	15+89.18	25.25 LT
30			571815.9866	1442160.1919	822.42	19+02.72	26.74 LT

BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
406			571728.8793	1441620.0363	820.68	10+06.00	24.50 RT
405			571973.1992	1441765.4371	818.45	12+81.69	44.98 LT

**DATUM DESCRIPTION**

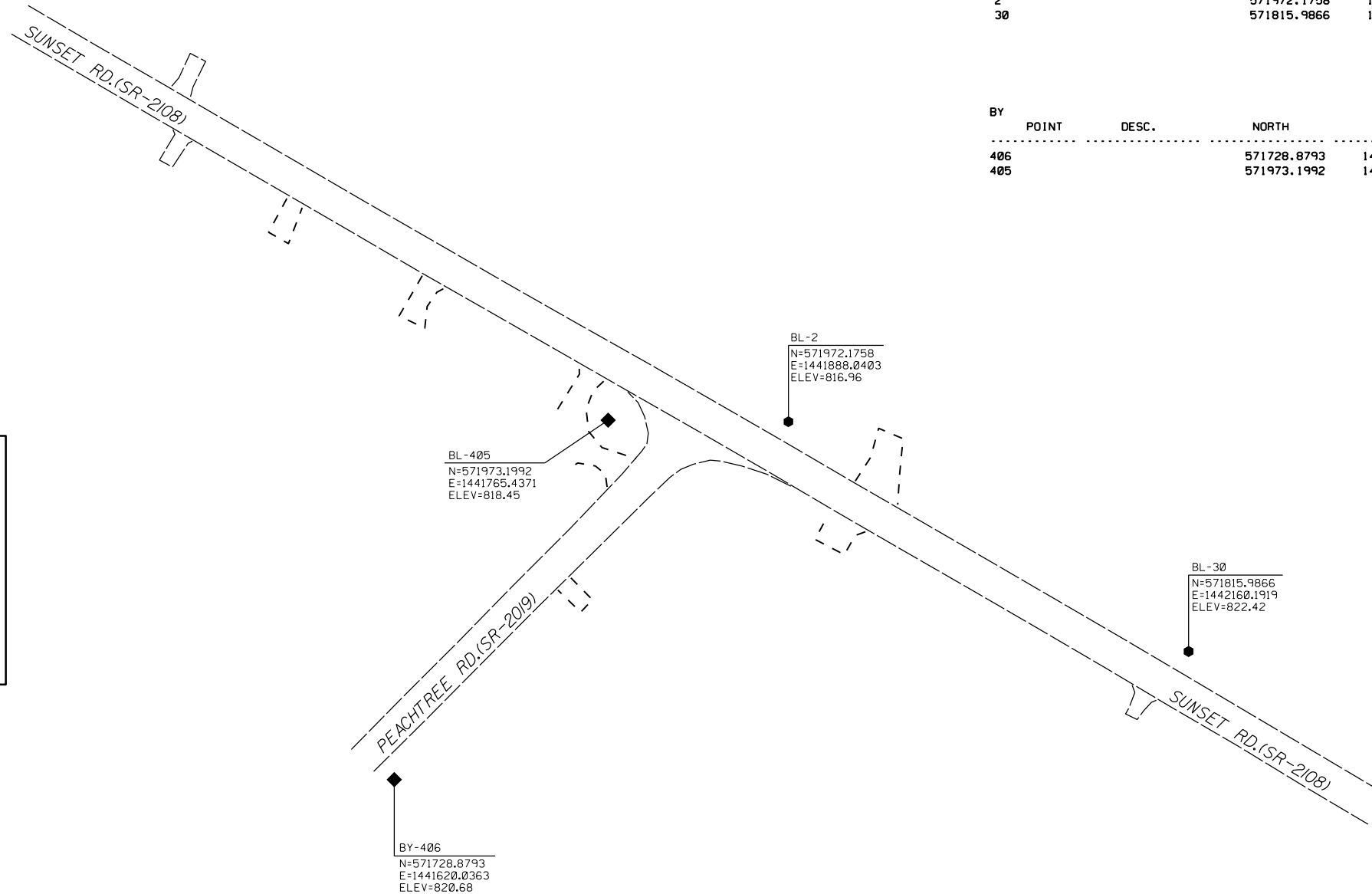
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-2"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF  
 NORTHING: 571972.176(±) EASTING: 1441888.040(±)  
 ELEVATION: 816.96(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987306

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO L- STATION 10+00 IS  
 N 62° 24' 04" W 589.68

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88



**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

LEFT TURN LANE AT  
 SUNSET RD.(SR-2108) AND  
 PEACHTREE RD.(SR-2019)

SCALE	N/A		REVISIONS
DATE	1-2020		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
44856.3.19	1B
F.A. PROJECT NO. HSIP-2108(002)	

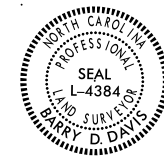
# RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this 22nd day of NOV 2021

Barry D. Davis, Professional Land Surveyor  
 DocuSigned by: *Barry Davis* PLS# L-4384  
 0E2AAE4F48174DC...



L				
TYPE	STATION	NORTH	EAST	
PC	10+00.00	572245.3644	1441365.4557	
PT	12+04.04	572142.6818	1441541.7696	
PC	17+20.25	571884.8315	1441988.9706	
PT	20+67.12	571708.9178	1442287.9208	

Y				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	571741.9252	1441598.4527	
POT	13+30.02	571975.6755	1441831.4158	

ROW MARKER IRON PIN & CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+15.00	30.00	572061.2653	1441622.9141
L	14+00.00	40.00	571970.1841	1441760.8605
L	16+18.00	44.00	571897.7873	1441878.4135
L	18+55.00	30.00	571791.2361	1442090.3118

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	12+31.00	30.00	571884.3648	1441782.7676
Y	12+68.00	-30.00	571952.9266	1441766.3885

PERMANENT DRAINAGE EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L	15+53.00	-45.00	572007.3568	1441866.5591
L	15+53.00	-30.00	571994.3621	1441859.0665
L	15+73.00	-45.00	571997.3667	1441883.8853
L	15+73.00	-30.00	571984.3720	1441876.3927

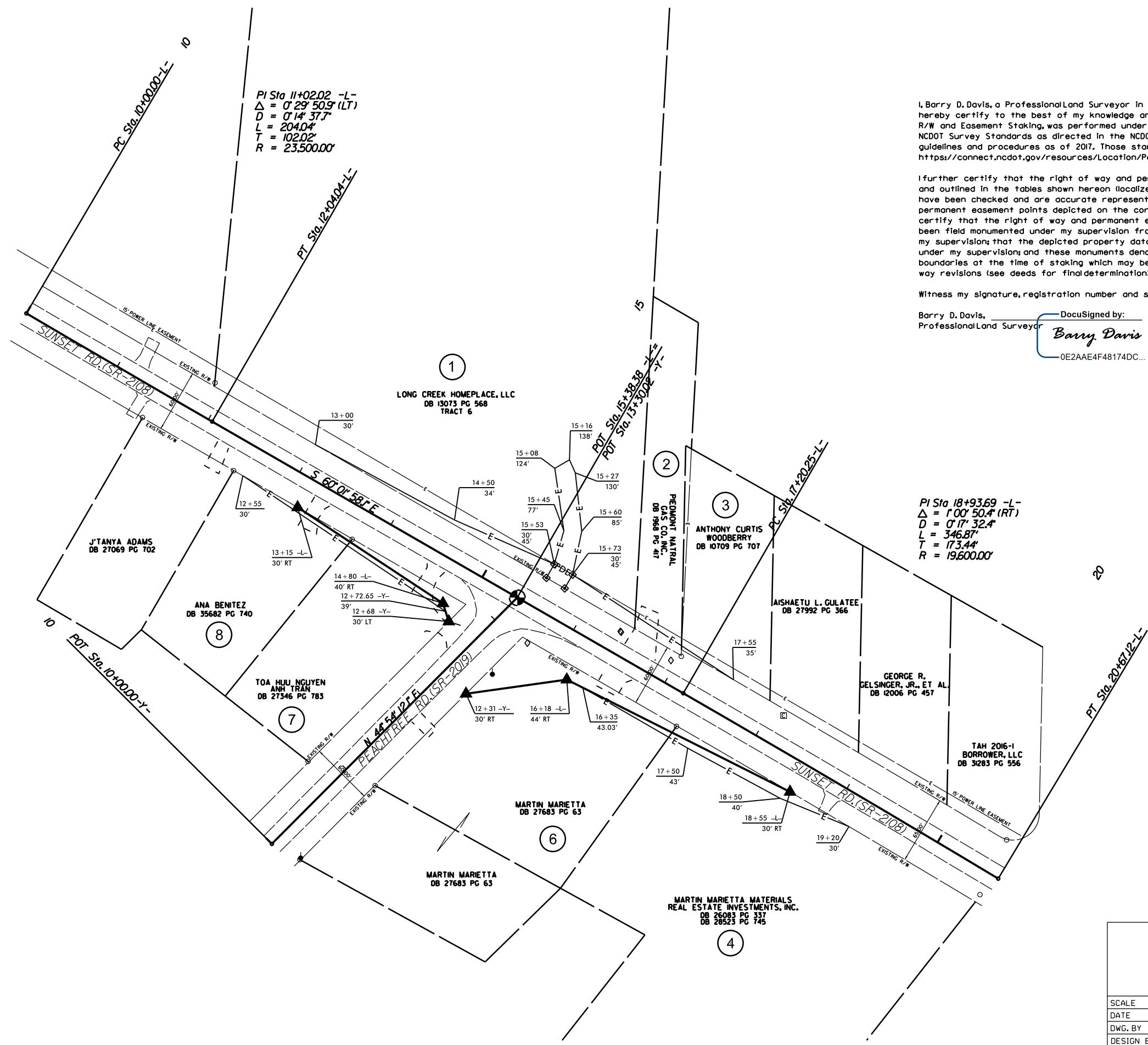
**NOTES:**

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

LEFT TURN LANE AT  
SUNSET RD.(SR-2108) AND  
PEACHTREE RD.(SR-2019)

SCALE	N/A		REVISIONS
DATE	1-2020		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		

PROJECT NO.	SHEET NO.
44856.3.19	1C
F.A. PROJECT NO. HSIP-2108(0002)	



I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

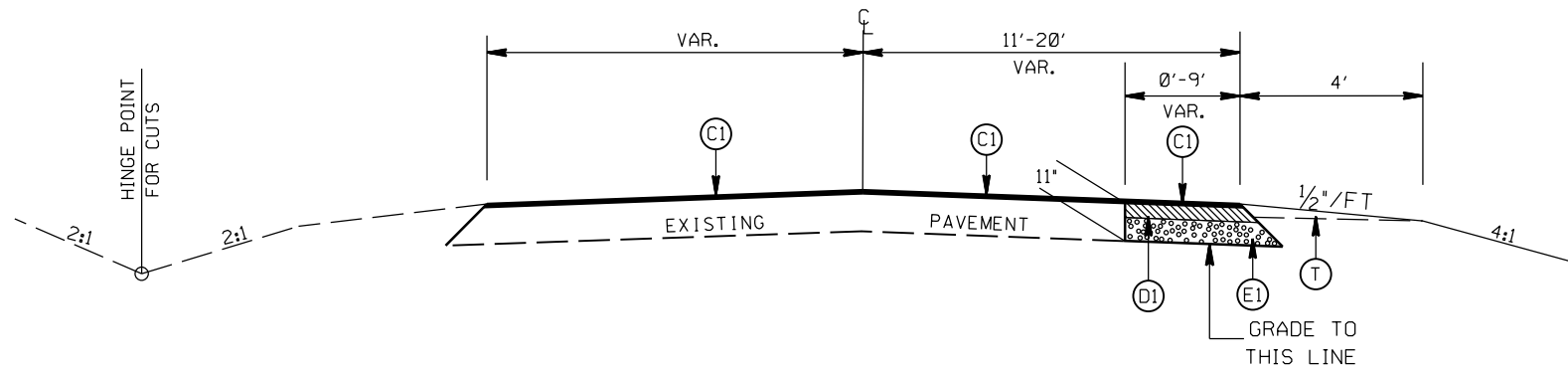
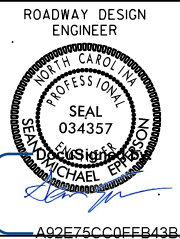
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this 22nd day of Nov 2021

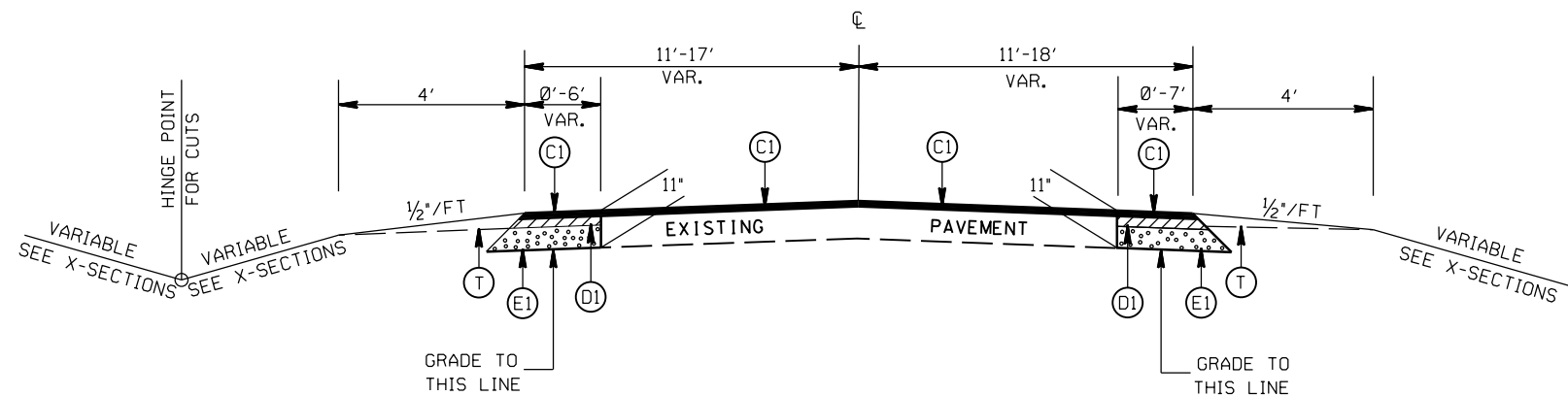
Barry D. Davis, Professional Land Surveyor  
 DocuSigned by: Barry Davis  
 PLS# L-4384  
 0E2AAE4F48174DC...



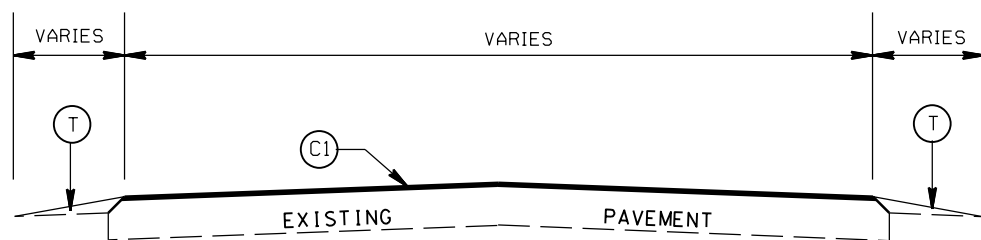
LEFT TURN LANE AT SUNSET RD. (SR-2108) AND PEACHTREE RD. (SR-2109)			REVISIONS	
SCALE	N/A			
DATE	1-2019			
DWG. BY	JCB			
DESIGN BY	JDH			
APPROVED	JDH			



TYPICAL SECTION NO. 3  
STA. 12+55.00 TO 13+00.00 -Y-



TYPICAL SECTION NO. 2  
STA. 12+58.79 TO 19+15.00 -L-



TYPICAL SECTION NO. 1  
STA. 12+33.79 TO 12+58.79 -L-  
STA. 19+15.00 TO 19+40.00 -L-  
STA. 12+30.00 TO 12+55.00 -Y-

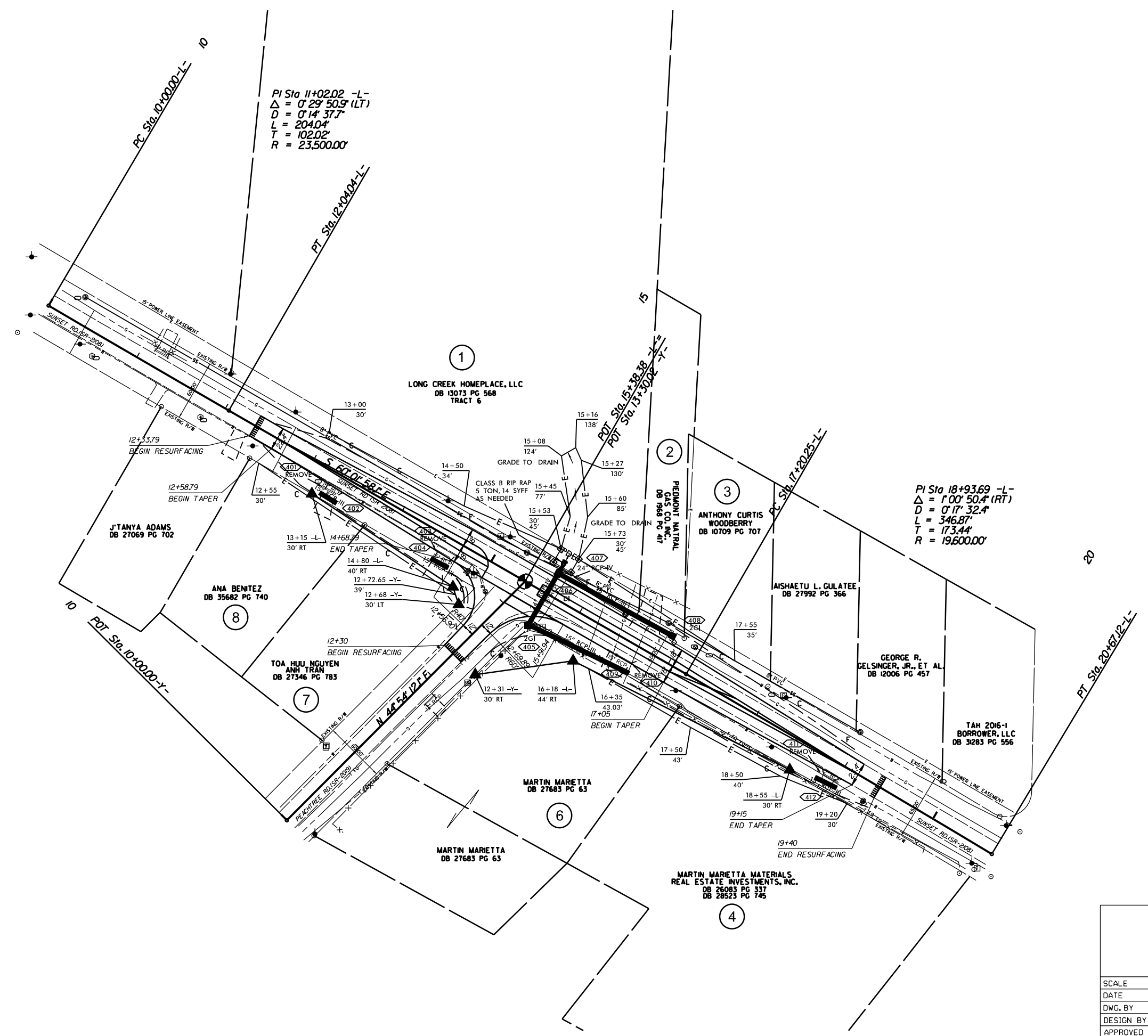
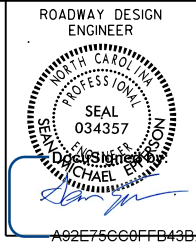
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5 1/2" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(T)	EARTH MATERIAL

LEFT TURN LANE ON  
SUNSET RD. (SR-2108) AT  
PEACHTREE RD. (SR-2109)

SCALE	N/A		REVISIONS
DATE	8-2020		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		





LEFT TURN LANE ON  
SUNSET RD.(SR-2108) AT  
PEACHTREE RD.(SR-2019)

SCALE	1"=50'		REVISIONS
DATE	1-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44856.3.19	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.19	HSIP-2108(002)	P.E.	
44856.2.19	HSIP-2108(002)	R/W	
44856.3.19	HSIP-2108(002)	CONST.	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  

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**PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL**

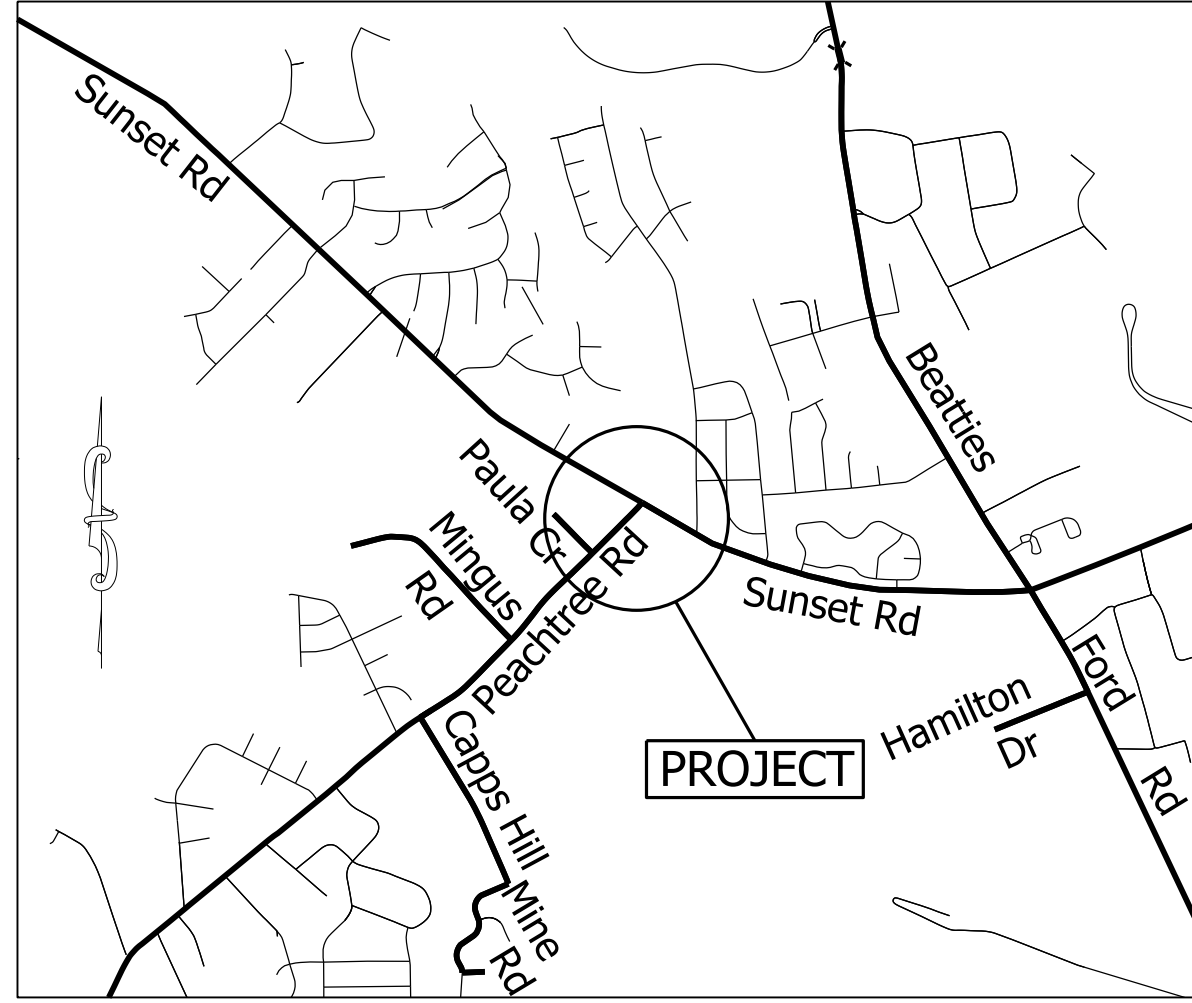
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**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.



**PROJECT: 44856.3.19 TIP: W-5710S**

\\w-5710s\5710s\Sunrise\5710S\_Sunrise\_Peachtree.meb.ec.tsh.dgn  
Jebbycook AT 08/08/13 11:37 AM

**GRAPHIC SCALE**

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
WITH THE REGULATIONS SET FORTH BY THE  
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**2018 STANDARD SPECIFICATIONS**

**CHAD BURRIS** 4159  
EROSION CONTROL DESIGNER LEVEL III CERTIFICATION NO.

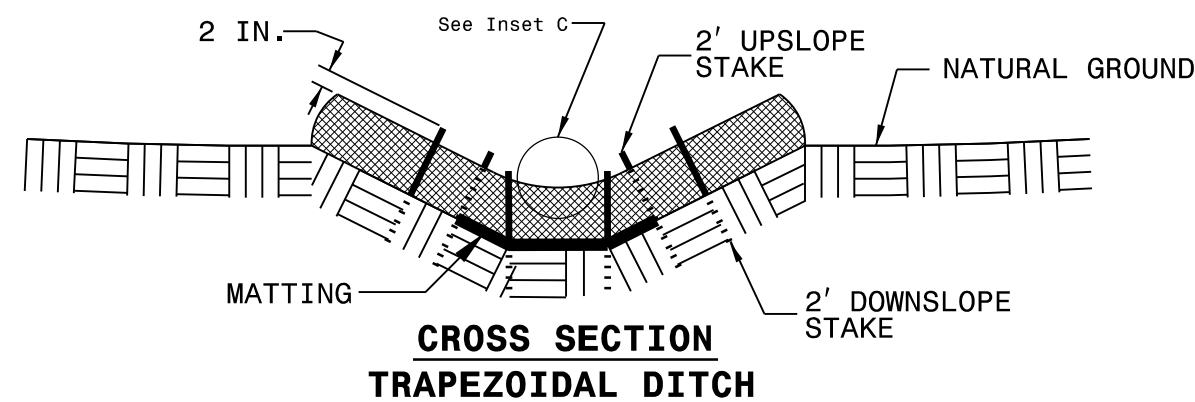
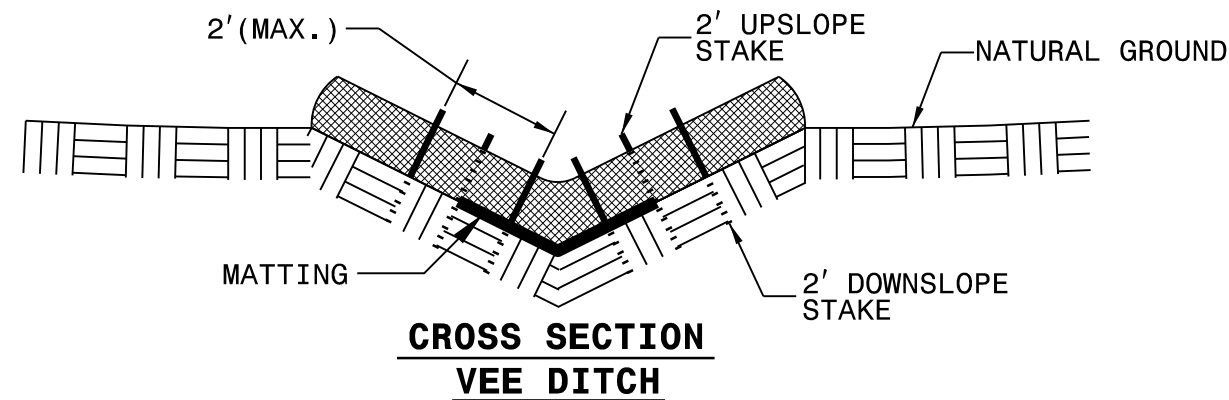
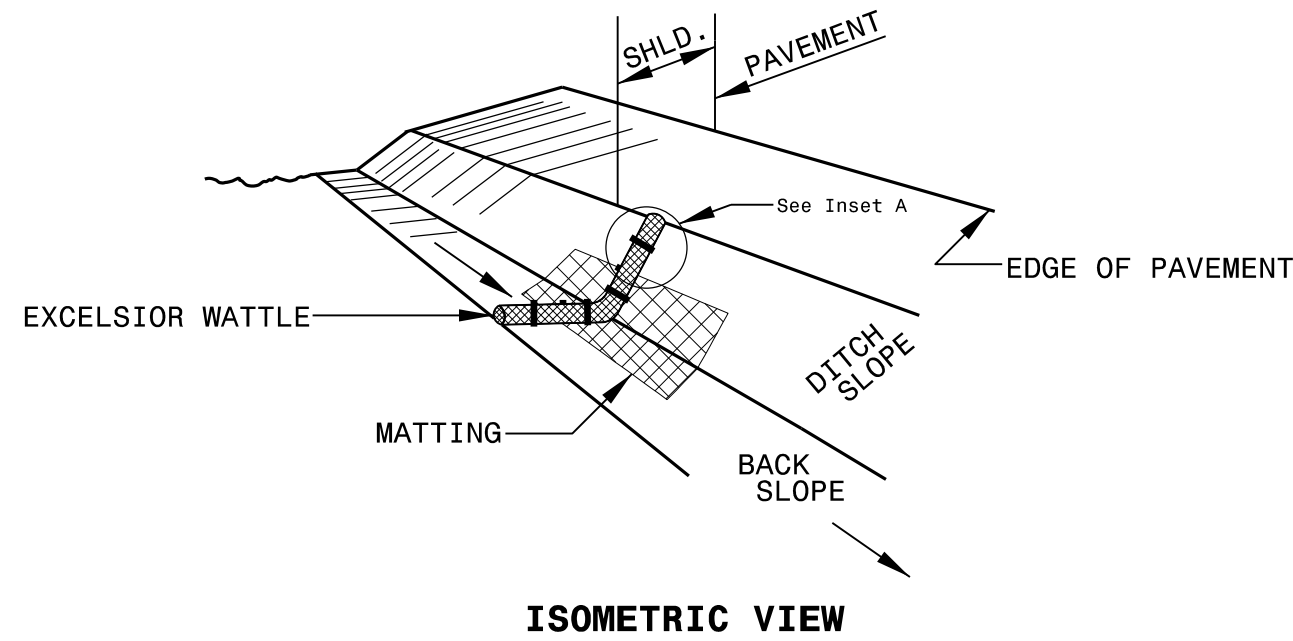
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type A	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	



# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

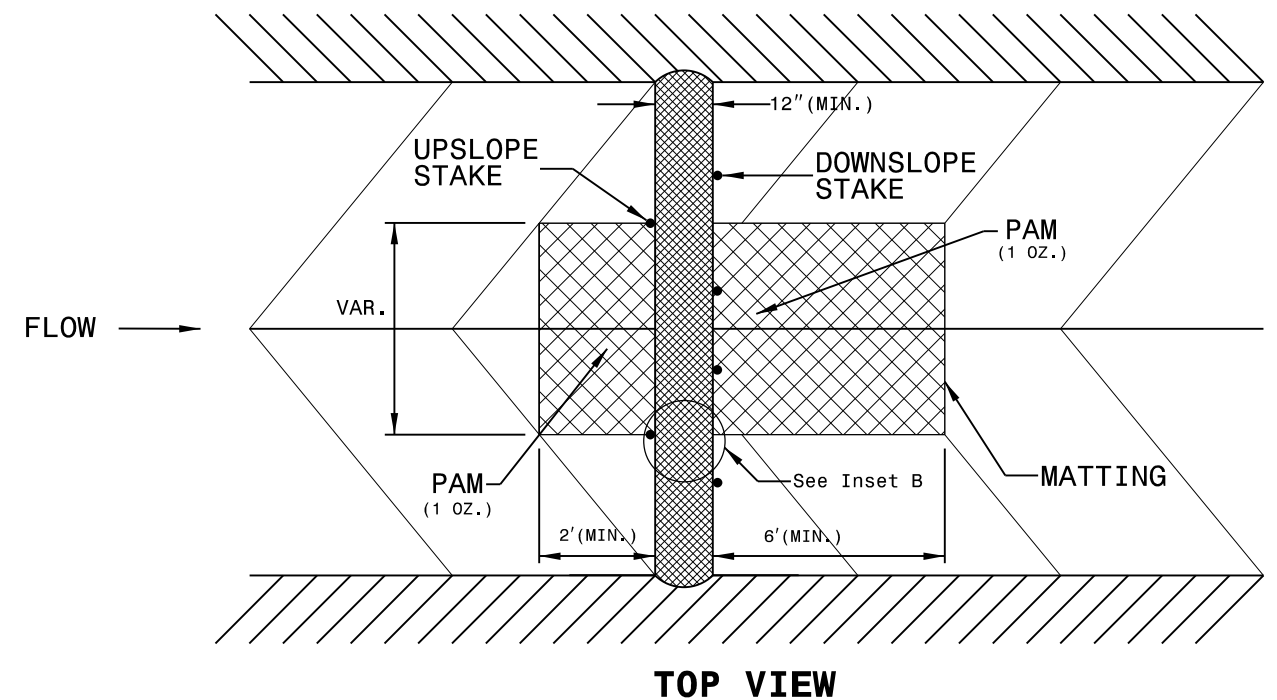
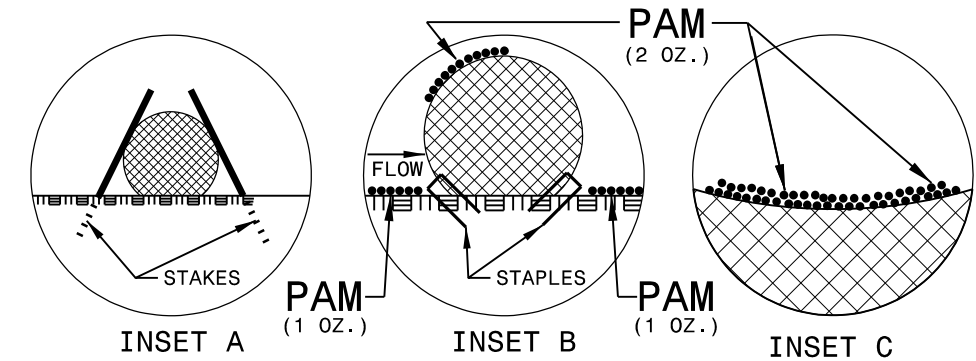
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

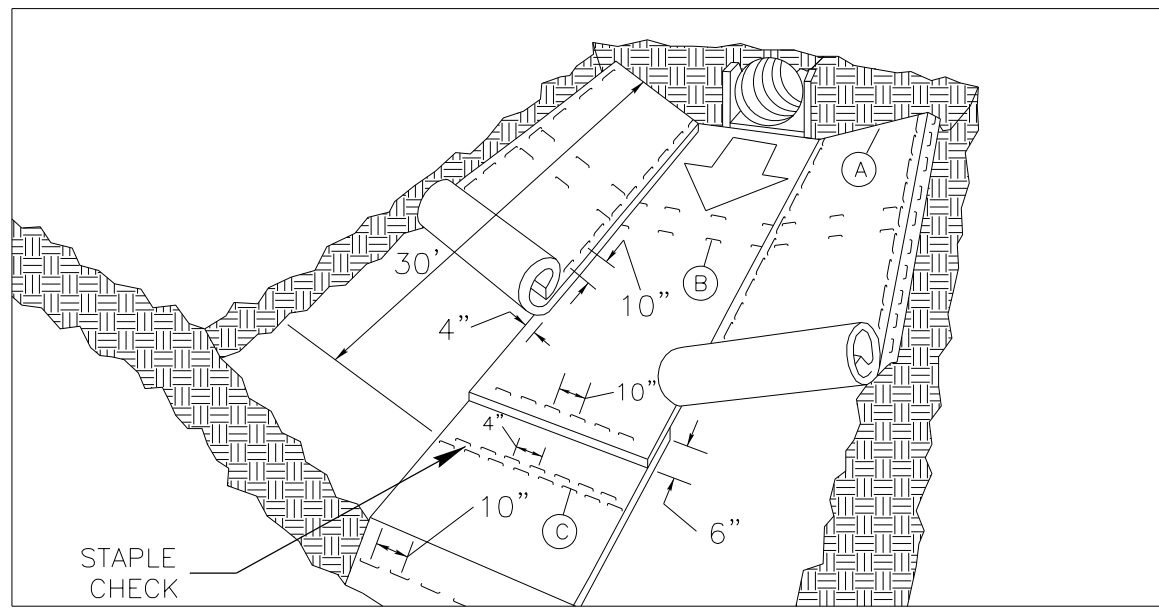
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO. 44856.3.19	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

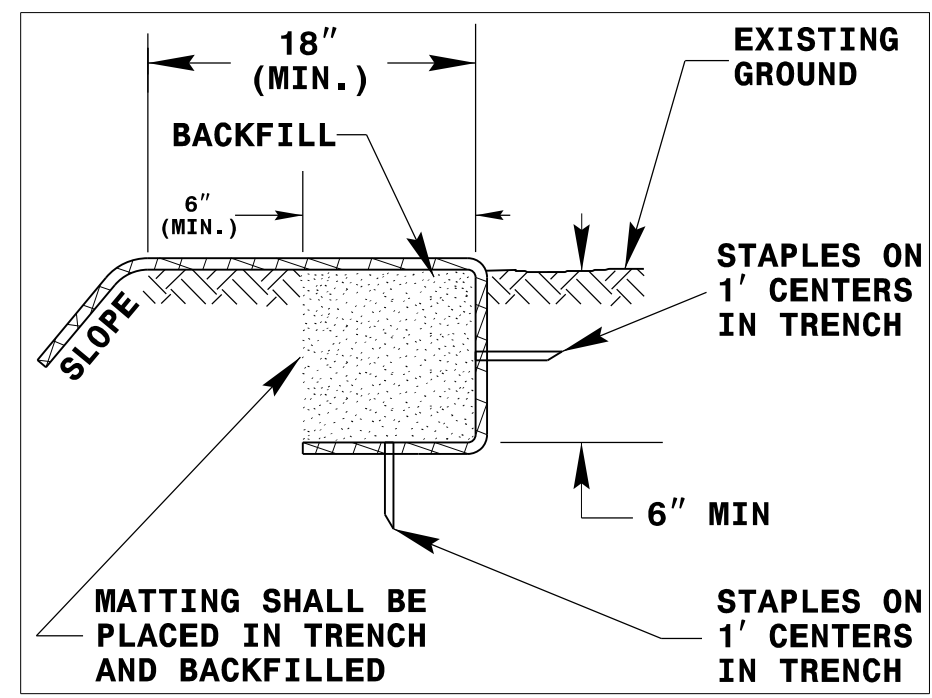
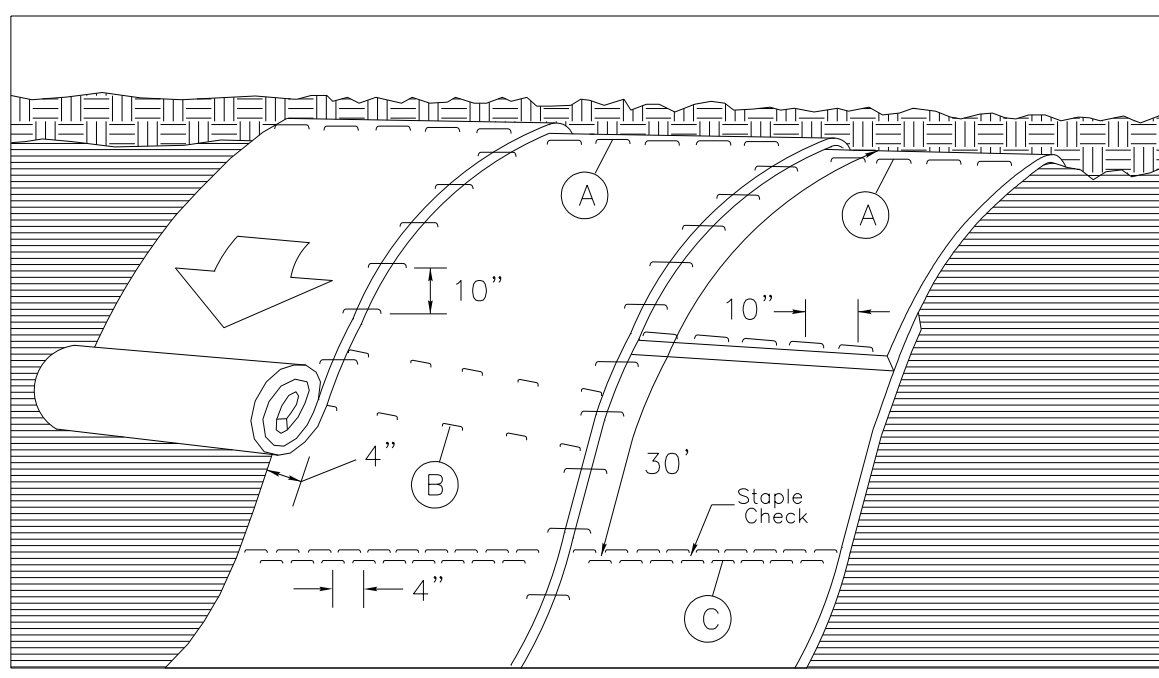


DIAGRAM (A)



**MATTING ON SLOPES**

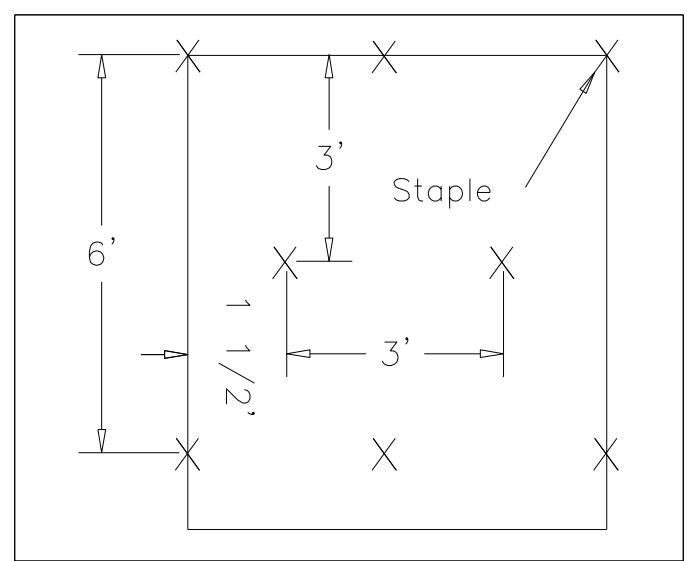


DIAGRAM (B)

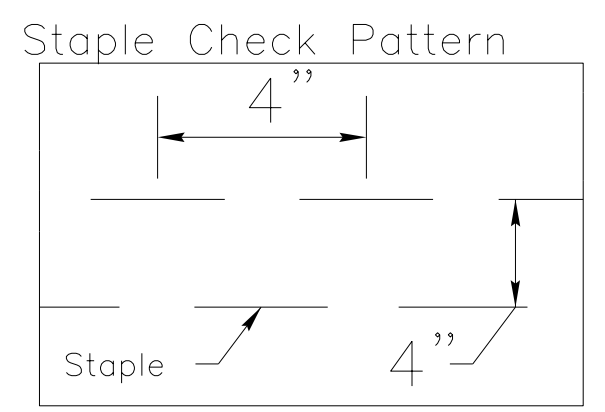


DIAGRAM (C)

**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.  
 STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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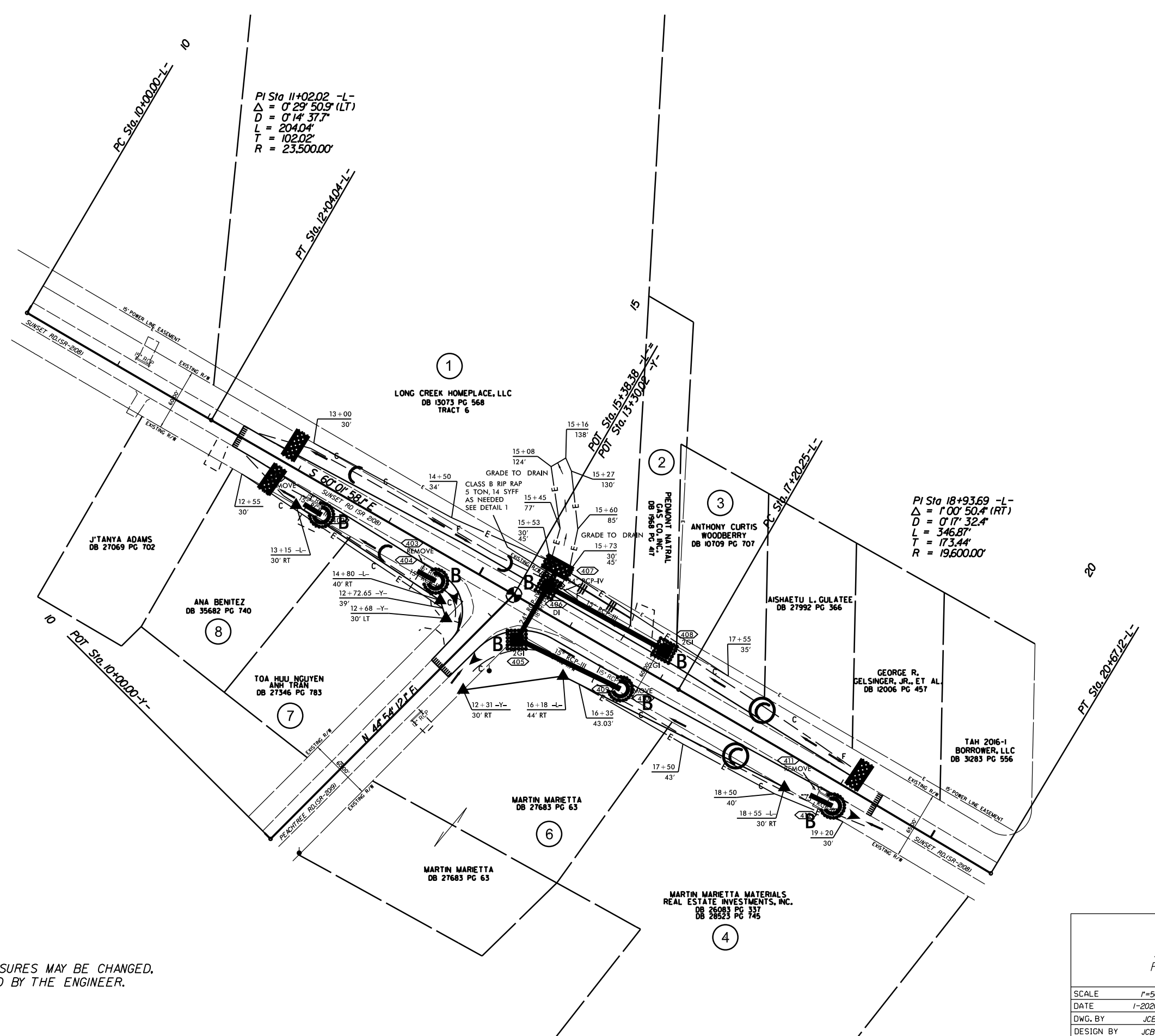
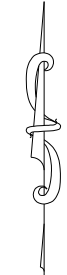
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PROJECT REFERENCE NO. 44856.3J9	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

PROJECT NO.	SHEET NO.
44856.3.19	EC-4
F.A. PROJECT NO. HSIP-21081002	



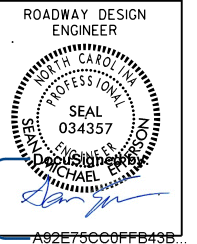
PI Sta 11+02.02 -L-  
 $\Delta = 0^\circ 29' 50.9''$  (LT)  
 $D = 0' 14' 37.7''$   
 $L = 204.04'$   
 $T = 102.02'$   
 $R = 23,500.00'$

PI Sta 18+93.69 -L-  
 $\Delta = 1^\circ 00' 50.4''$  (RT)  
 $D = 0' 17' 32.4''$   
 $L = 346.87'$   
 $T = 173.44'$   
 $R = 19,600.00'$

EROSION CONTROL MEASURES MAY BE CHANGED.  
 IN FIELD AS DIRECTED BY THE ENGINEER.

LEFT TURN LANE ON  
 SUNSET RD.(SR-2108) AT  
 PEACHTREE RD.(SR-2019)

SCALE	1"=50'		REVISIONS
DATE	1-2020		
DWG. BY	JCB		
DESIGN BY	JCB		
APPROVED	JDH		



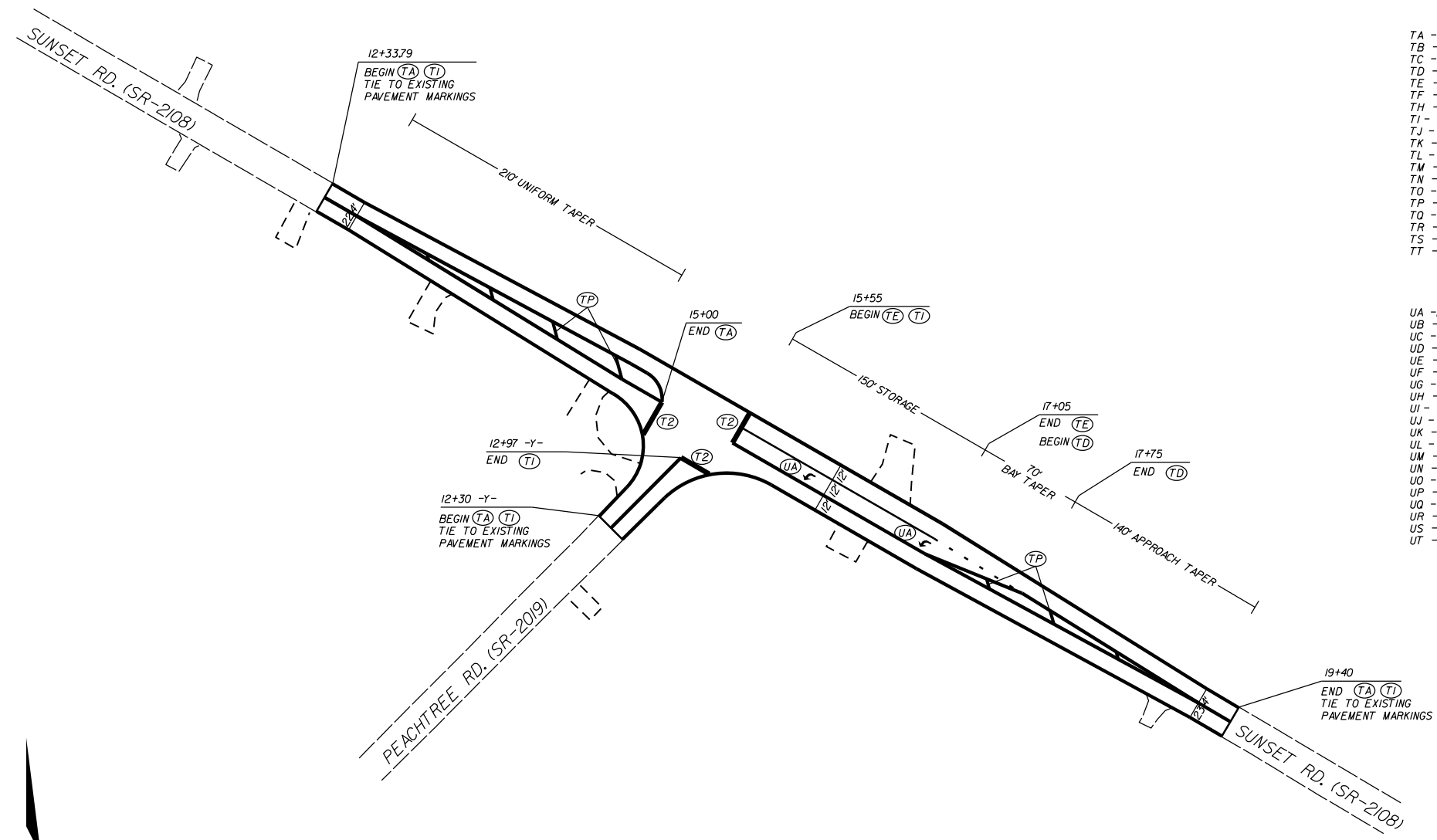
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- |   |  |
|---|--|
| TA - WHITE EDGELINE (4',.90 MIL)              | TU - WHITE DIAGONAL (12',.90 MIL)                            |
| TB - YELLOW EDGELINE (4',.90 MIL)             | TV - YELLOW DIAGONAL (12',.90 MIL)                           |
| TC - 10FT. WHITE SKIP (4',.90 MIL)            | TI - WHITE LINE, RR X (16',.90 MIL)                          |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4',.90 MIL) | T2 - WHITE STOPBAR (24',.90 MIL)                             |
| TE - WHITE SOLID LANE LINE (4',.90 MIL)       | T3 - WHITE CROSSWALK LINE (24',.90 MIL)                      |
| TF - 10FT. YELLOW SKIP (4',.90 MIL)           | T4 - WHITE RUMBLE STRIP (4',.240 MIL)                        |
| TH - YELLOW SINGLE CENTER (4',.90 MIL)        | T5 - YELLOW RUMBLE STRIP (4',.240 MIL)                       |
| TI - YELLOW DOUBLE CENTER (4',.90 MIL)        | T6 - WHITE EDGELINE (6',.90 MIL)                             |
| TJ - 10FT. WHITE SKIP (6',.90 MIL)            | T7 - YELLOW EDGELINE (6',.90 MIL)                            |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6',.90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4',.90 MIL)                |
| TL - WHITE SOLID LANE LINE (6',.90 MIL)       | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',.90 MIL)               |
| TM - 10FT. YELLOW SKIP (6',.90 MIL)           | T10 - 3FT.-3FT./SP WHITE MINISKIP (12',.90 MIL)              |
| TN - WHITE GORELINE (8',.90 MIL)              | T11 - 2FT.-6FT./SP WHITE MINISKIP (6',.90 MIL)               |
| TO - WHITE DIAGONAL (8',.90 MIL)              | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6',.90 MIL)              |
| TP - YELLOW DIAGONAL (8',.90 MIL)             | T13 - 3FT.-9FT./SP WHITE MINISKIP (8',.90 MIL)               |
| TQ - WHITE CROSSWALK LINE (8',.90 MIL)        | T14 - 3FT.-9FT./SP WHITE MINISKIP (12',.90 MIL)              |
| TR - WHITE SOLID LANE LINE (8',.90 MIL)       | T15 - YELLOW SINGLE CENTER (6',.90 MIL)                      |
| TS - WHITE GORELINE (12',.90 MIL)             | T16 - YELLOW DOUBLE CENTER (6',.90 MIL)                      |
| TT - WHITE SOLID LANE LINE (12',.90 MIL)      | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',.90 MIL) |

PAVEMENT MARKING SYMBOLS

- |  |  |
|--|--|
| UA - LEFT TURN ARROW (90 MIL)                  | UU - FISH-HOOK STRAIGHT ARROW (90 MIL)                     |
| UB - RIGHT TURN ARROW (90 MIL)                 | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)                |
| UC - STRAIGHT ARROW (90 MIL)                   | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)               |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)       | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)                   |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)      | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)          |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL)          | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)            |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |  |
| UH - HANDICAP PARKING (90 MIL)                 | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)                |
| UI - ALPHANUMERIC CHAR. (90 MIL)               | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)       |
| UJ - BICYCLE STRAIGHT ARROW (90 MIL)           | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE CHAR. (90 MIL)                    |  |
| UL - BICYCLE CHAR. (90 MIL)                    | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)             |
| UM - 12" YIELD LINE TRIANGLE (90 MIL)          | MB - PERMANENT RAISED MARKER (CRYSTAL & RED)               |
| UN - 24" YIELD LINE TRIANGLE (90 MIL)          | MC - PERMANENT RAISED MARKER (YELLOW & RED)                |
| UO - BICYCLE LEFT ARROW (90 MIL)               | MD - PERMANENT RAISED MARKER (YELLOW)                      |
| UP - MERGE ARROW (90 MIL)                      | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)                 |
| UQ - RAMP ARROW SYMBOL (90 MIL)                | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)                   |
| UR - SHARROW (90 MIL)                          | MG - SNOWPLOWABLE MARKER (YELLOW & RED)                    |
| US - BICYCLE LOOP DETECTOR (90 MIL)            | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)           |
| UT - U-TURN ARROW (90 MIL)                     | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)               |



LEFT TURN LANE ON  
SUNSET RD.(SR-2108) AT  
PEACHTREE RD.(SR-2019)

SCALE	1"=50'		REVISIONS
DATE	1-2020		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
MECKLENBURG COUNTY**

*LOCATION: Sunset Rd (SR 2108) At Peachtree Rd (SR2019)*

PROJECT REFERENCE NO. <b>W-5710S</b>	SHEET NO. <b>SIGN-01</b>
APPROVED: DocuSigned by: Jose G. Martinez 447D8418C886461	
DATE: 10/6/2021	
SEAL 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

T.I.P.: W-5710S

**ROADWAY STANDARD DRAWING**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.		
4072000000	903	175	L.F.
4102000000	904	7	EA.
4116100000	904	2	EA.
4155000000	907	4	EA.
4192000000	907	1	EA.

**TYPE "E" SIGNS**

<p>401 QUANTITY REQ'D <u>  3  </u></p> <p style="font-size: 6px;">30" X 30" W3-3</p> <p style="font-size: 6px;">ONE "U" POST PER SIGN</p>	<p>402 QUANTITY REQ'D <u>  1  </u></p> <p style="font-size: 6px;">30" X 30" W2-2</p> <p style="font-size: 6px;">ONE "U" POST PER SIGN</p>	<p>403 QUANTITY REQ'D <u>  1  </u></p> <p style="font-size: 6px;">48" X 24" W1-7</p> <p style="font-size: 6px;">TWO "U" POSTS PER SIGN</p>	<p>404 QUANTITY REQ'D <u>  2  </u></p> <p style="font-size: 6px;">18" X 18" OM4-3</p> <p style="font-size: 6px;">ONE "U" POST PER SIGN</p>
---	---	--	--

**GENERAL NOTES**

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

**PROJECT NOTES**

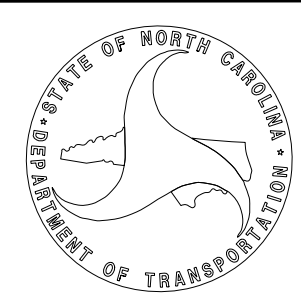
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 RELOCATE SIGN, TYPE E

**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET, E SIGNS
SIGN-2	SIGNING PLAN SHEET

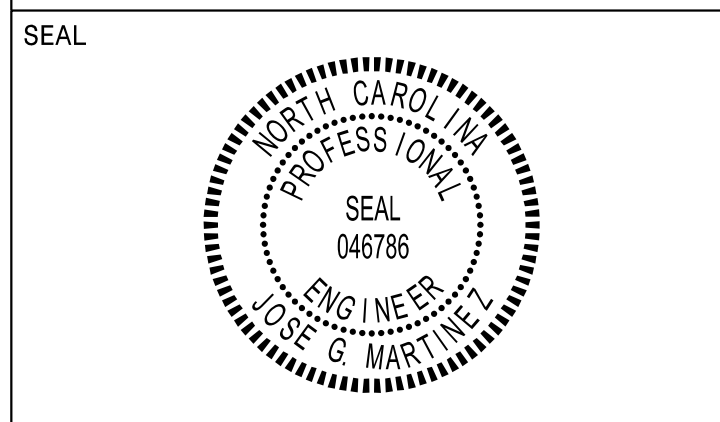
PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

K. L. JORDAN      SIGNING & DELINEATION REGIONAL ENGINEER  
J. G. MARTINEZ, PE      SIGNING & DELINEATION PROJECT DESIGN ENGINEER

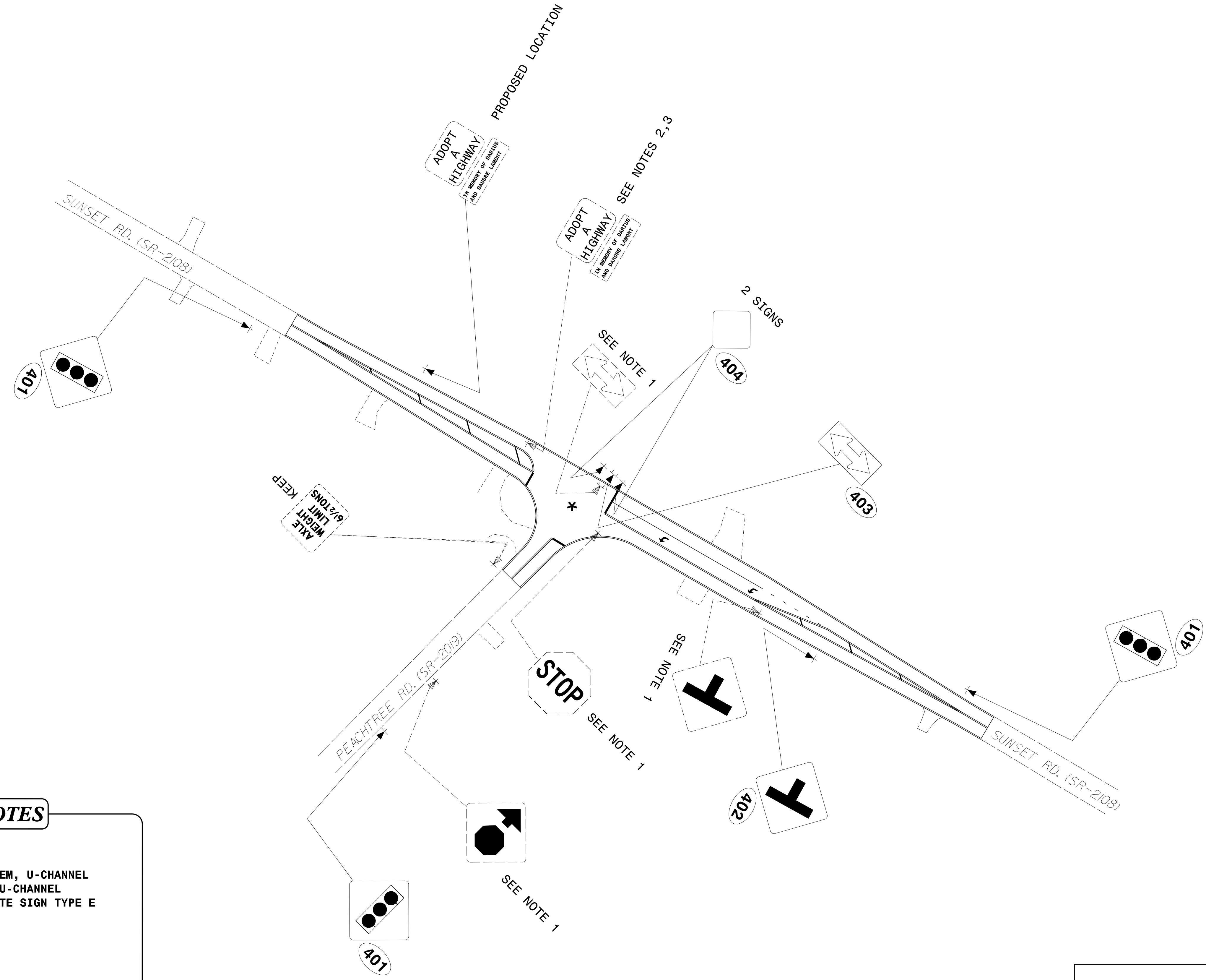


APPROVED: *Jose G. Martinez*  
DocuSigned by:  
Jose G. Martinez  
8A7DB418C8864E1

DATE: 10/6/2021



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UNLESS ALL SIGNATURES COMPLETED**



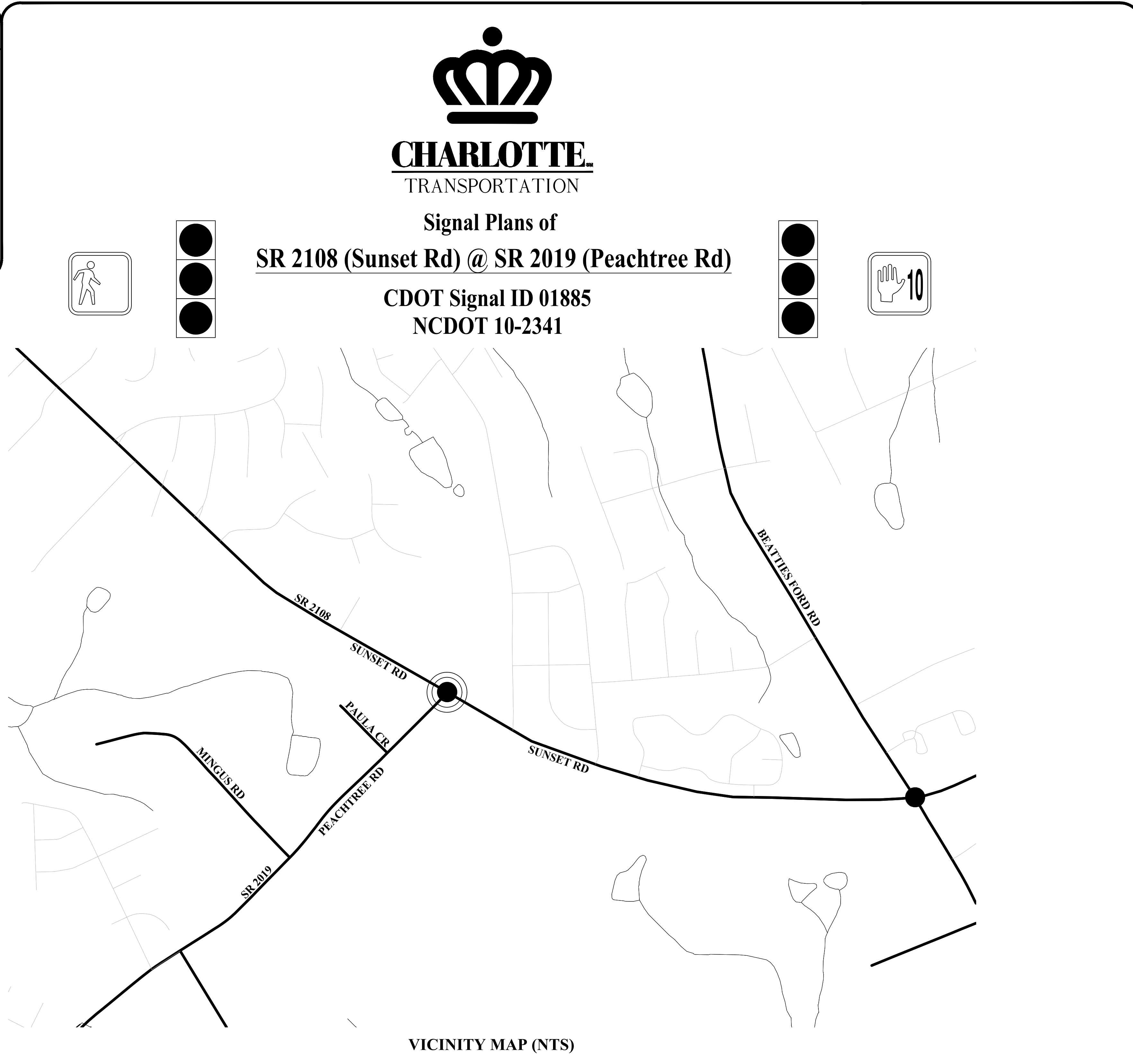
**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 SIGN ERECTION, RELOCATE SIGN TYPE E

\* SIGNALIZED

**EXISTING & PROPOSED  
SIGNS**

INDEX OF SHEETS	
Cover Sheet .....	SIG1
Signal Plan .....	SIG2
Signal Details .....	SIG3
Miscellaneous Details .....	SIG4
Splice Detail .....	SIG5
Signal Wiring Diagram .....	SIG6
Low Voltage Wiring Diagram .....	SIG7
TOTAL SHEETS 7	



Signal Plans of  
**SR 2108 (Sunset Rd) @ SR 2019 (Peachtree Rd)**  
 CDOT Signal ID 01885  
 NCDOT 10-2341

VICINITY MAP (NTS)

LEGEND		
PROPOSED	DESCRIPTION	EXISTING
	CONTROL BOX	
	METER PEDESTAL	
	PULL BOX	
	STEEL POLE	
	MAST ARM	
	PED PEDESTAL	
	UTILITY POLE	
	ANCHOR	
	SIGNAL HEAD	
	VIDEO CAMERA	
	OPTICOM	
	OBSERVATION CAM	
	DETECTOR	
	CONDUIT	
	INTERCONNECT	
	EDGE OF PVMT.	
	CURB & GUTTER	
	TUBULAR MARKER	
	GROUND SIGN	
	OVERHEAD SIGN	
	DOUBLE YELLOW	
	STOP BAR	
	WHITE SKIP	
	WHITE MINI	
	PAVEMENT ARROW	
	PROPERTY LINE	
	ROW	
	UTILITIES TELEPHONE UG CABLE SUE	
	UTILITIES SANITARY SEWER UG LINE	
	UTILITIES WATER UG LINE SUE	
	UTILITIES GAS UG LINE SUE	
	UTILITIES TELEPHONE UG FO SUE	
	OTHER CULTURE FENCE LINE	

PULLBOX ID		
	SIZE	PULLBOX TYPE
①	13"x24"x12"	LOOP
②	17"x30"x24"	FIBER OPTIC
③	24"x36"x24"	CONTROLLER / FIBER
④	30"x48"x36"	CONTROLLER
⑤	24"x24"x12"	CONTROLLER
⑥	36"x36"x12"	CONTROLLER

NOTE:  
 PULLBOX MATERIAL MUST MEET OR EXCEED THE 2018  
 NCDOT STANDARD TRAFFIC SIGNAL SPECIFICATIONS.

**PLANS PREPARED FOR:**

**City of Charlotte**  
**Department of Transportation**  
 600 East 4th Street Charlotte, NC 28202  
 Phone: (704) 336-4119  
 Fax: (704) 336-4400

- PLAN NOTES**
- ALL PAVEMENT MARKING DIMENSIONS ARE APPROXIMATE.
  - SIGNAL SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NCDOT STANDARD SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS.
  - CITY WILL SUPPLY OVERHEAD STREET NAME SIGNS FOR INSTALLATION.
  - FYA #31 WILL INITIALLY OPERATE PROTECTED-PERMITTED 24 HOURS A DAY 7 DAYS A WEEK.

**PE SEAL**

DocuSigned by:  
*Lisa M. Moon*  
 9/21/2021

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

**PROJECT TEAM**

Plans Prepared By:  
 DRMP, Inc.  
 8000 Regency Parkway, Suite 110  
 Cary, NC 27518  
 NC License No. C-2213 (919) 650-1038

DESIGNER:	D. White
PROJECT ENGINEER:	C. Silver
PROJECT MANAGER:	L. Moon

NCDOT Division 10

**CHARLOTTE**  
TRANSPORTATION

SHEET  
**SIG1**

Signal ID 01885 / NCDOT 10-2341  
 (SR-2108) Sunset Rd @ (SR-2019) Peachtree Rd







**NOTES**

1. To prevent "flash-conflict" problems, wire all unused load switches to flash red. Verify that signal heads flash in accordance with the signal plans.
2. To prevent red failures on unused monitor channels, tie unused load switch red outputs 1, 2, 5, 7, 9, 10, 11, 12, 13, 15 and 16 to load switch AC+ by inserting a jumper plug in the unused load switch socket from pin 1 (LS AC+) to pin 3 (RED out). Make sure all flash transfer relays are in place.
- ◆ 3. Program controller to start up in phase 4 Green and 8 Green.
- ◆ 4. Set power-up flash time to 12 seconds and implement on the Malfunction Management Unit. Set controller power-up flash time to 22 seconds.
- ◆ 5. Program detectors in accordance with the manufacturer's instructions to accomplish the detection schemes shown on the signal design plans.
- ◆ 6. Program detector call delay and extension timing on the controller, unless otherwise specified.
7. Set all detector card unit channels to "presence" mode.
8. The cabinet and controller will be integrated into the Charlotte Signal System by others in the future.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070LN2  
 CABINET .....[TS-2]  
 SOFTWARE .....ECONOLITE EOS-2070  
 CABINET MOUNT.....BASE MOUNT ON A RISER  
 LOADBAY POSITIONS.....16  
 LOAD SWITCHES USED.....3,4,6,8,14  
 PHASES USED.....3,4,6,8  
 OLA.....NOT USED  
 OLB.....\*  
 OLC.....NOT USED  
 OLD.....NOT USED

◆ \* See overlap programming detail on this sheet

**ECONOLITE EOS-2070 OVERLAP PROGRAMMING DETAIL**

*(program controller as shown)*

1. From Main Menu select 2. CONTROLLER
2. From CONTROLLER Submenu select 2. VEHICLE OVERLAPS

```

OVERLAP B
Select TMG VEH OVLP [B] and 'OTHER/ECONOLITE'

OVERLAP [B]      TYPE [PPLT/FYA]
PROTECTED TURN      PHASE 3
PERMISSIVE THROUGH PHASE 4

OUTPUT MODE          CH14 ISOLATE
INHIBIT WITH PED     .....
EARLY FYA ENABLE     YES
SPECIAL FUNCTION BIT DISABLE 6

END PROGRAMMING
    
```

◆ Software and Programming by CDOT

City of Charlotte Department of Transportation (CDOT) to provide EOS Software and do all Programming of the controller database. Contractor to provide CDOT with controller for programming a minimum of two weeks prior to installation. CDOT will return controller, fully programmed for contractor to install and integrate into the controller cabinet.



Plans Prepared For:  
 CITY OF CHARLOTTE  
 DEPARTMENT OF  
 TRANSPORTATION  
 600 E. 4TH ST. CHARLOTTE, NC 28202  
 704.359-4109 FAX 704.359-4660

Plans Prepared By:  
  
 DRMP, Inc.  
 8000 Regency Parkway, Suite 110  
 Cary, NC 27513  
 NC License No. C-2215 (919) 659-1038

NO.	DATE	BY	REVISION DESCRIPTION



DocuSigned by:  
 Lisa M. Moon  
 8/31/2021

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

01885	10-2341	DJW	05-2021
SIGNAL NO.	NC DOT ID NO.	PREPARED BY	DATE

SR 2108 (SUNSET RD) @  
 SR 2019 (PEACHTREE RD)  
 MISCELLANEOUS  
 DETAILS

SHEET  
**SIG4**  
 OF  
**SIG7**

**FIBER OPTIC SPLICE DETAILS NON-APPLICABLE, FUTURE SPLICE,  
PEDESTRIAN MOVEMENTS AND SIDEWALK TO BE DONE BY OTHERS.**



**Plans Prepared For:**  
CITY OF CHARLOTTE  
DEPARTMENT OF  
TRANSPORTATION  
600 E. 4TH ST. CHARLOTTE, NC 28202  
704.359-4100 FAX: 704.359-4660

**Plans Prepared By:**  
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DRMP, Inc.  
8000 Regency Parkway, Suite 110  
Charlotte, NC 28226 (919) 650-1038  
NC License No. C-2215

NO.	DATE	BY	REVISION DESCRIPTION



DocuSigned by:  
*Lisa M. Moon* 8/31/2021

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

01885 SIGNAL NO.	DJW PREPARED BY	12-2019 DATE
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10-2341 NCDOT ID NO.
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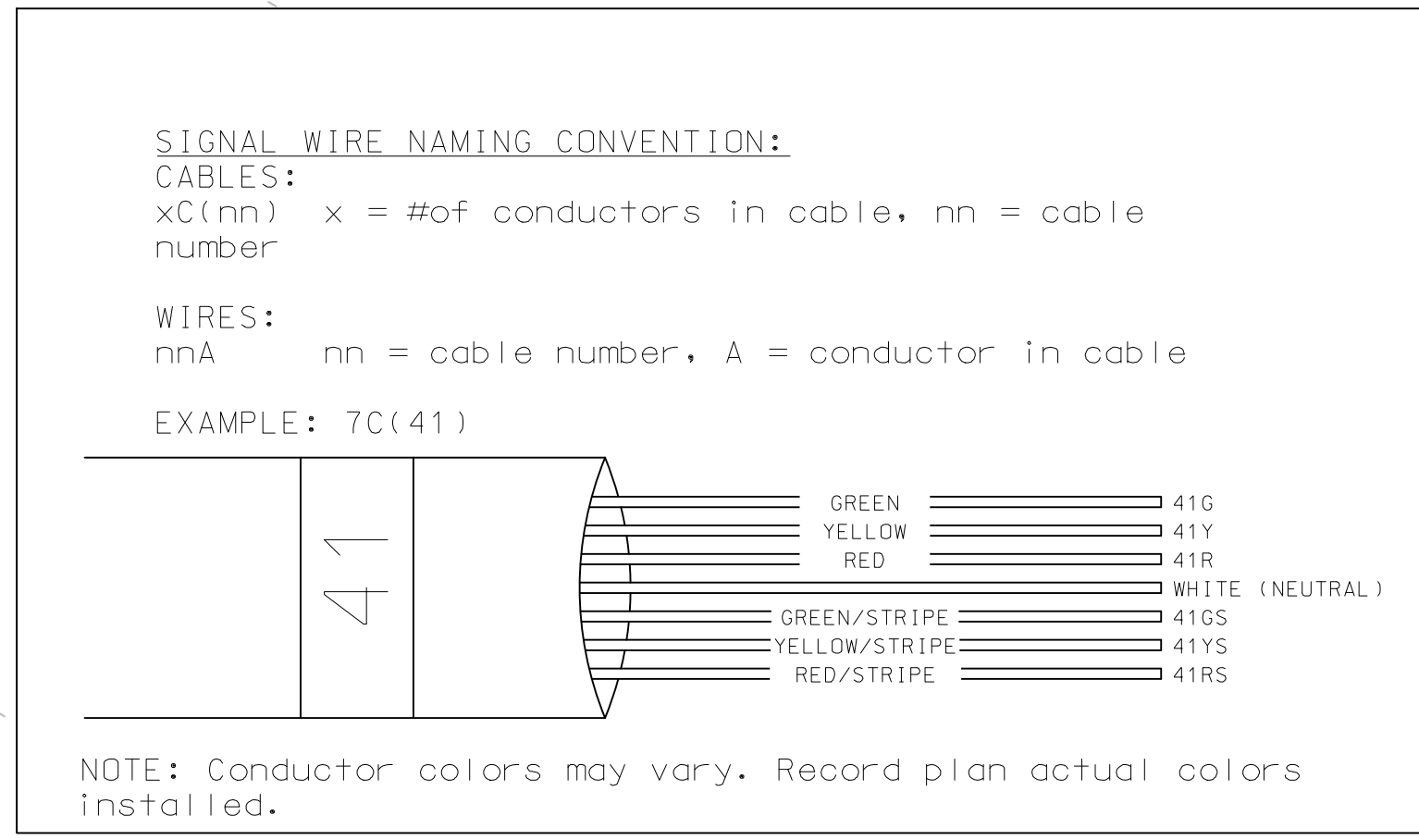
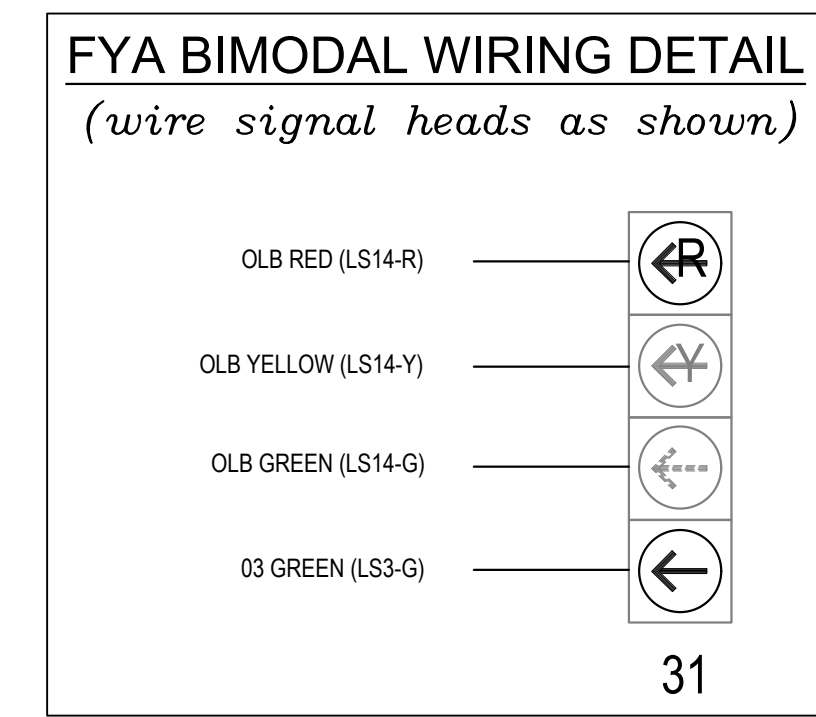
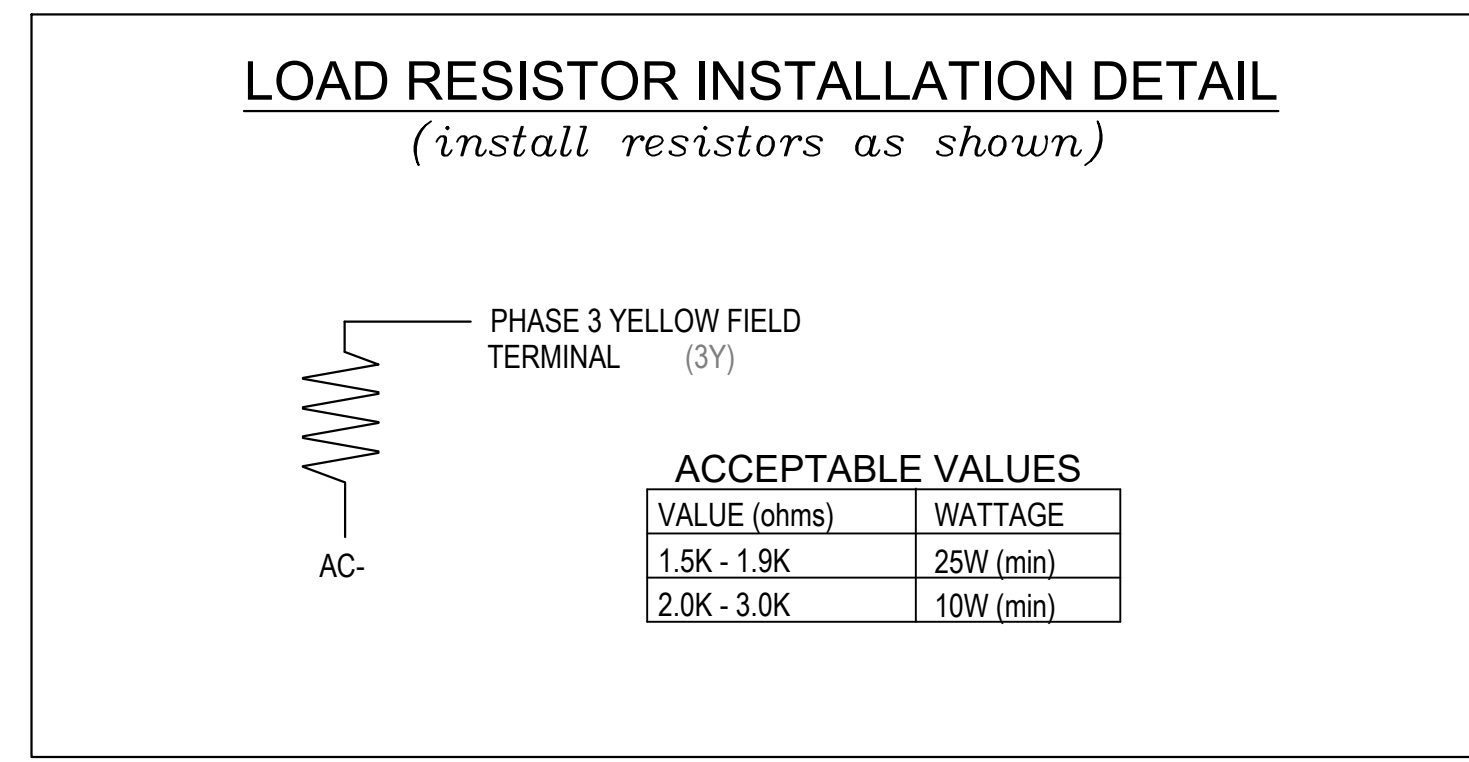
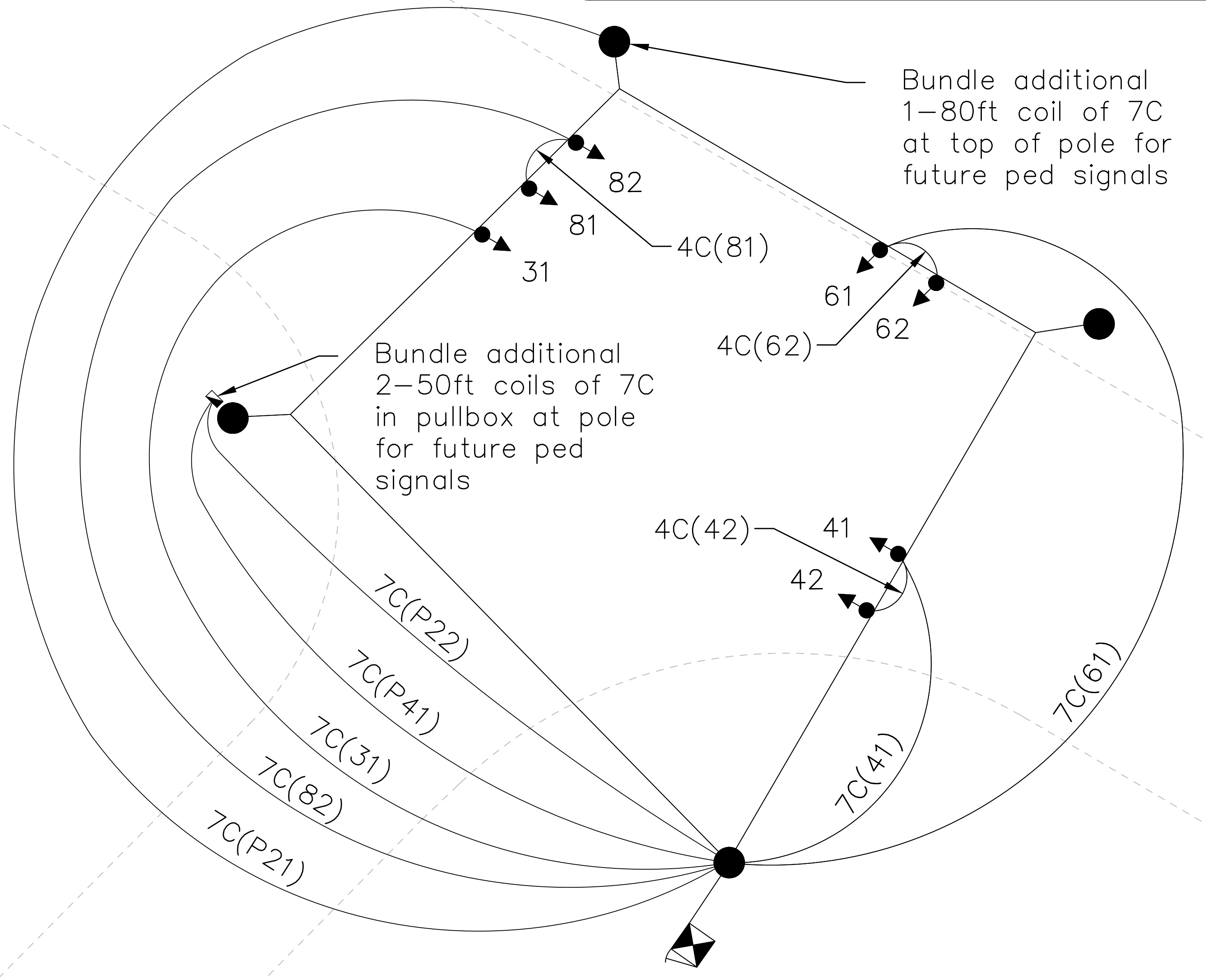
SR 2108 (SUNSET RD) @ SR 2019 (PEACHTREE RD)
FIBER OPTIC SPLICE DETAILS

SHEET <b>SIG5</b>	OF <b>SIG7</b>
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### SIGNAL HEAD WIRING

CHANNEL		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE		1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED	OL-A	OL-B	OL-C	OL-D
SIGNAL HEAD NO.		NU	NU	31★	41	42	NU	61	62	NU	82	81	NU	NU	31a★	NU	NU
RED	Wire				41R	42R		61R	62R		82R	81R					
	Terminal				LS4-R	[41R]		LS6-R	[61R]		LS8-R	[82R]					
YELLOW	Wire			*	41Y	42Y		61Y	62Y		82Y	81Y					
	Terminal				LS4-Y	[41Y]		LS6-Y	[61Y]		LS8-Y	[82Y]					
GREEN	Wire				41G	42G		61G	62G		82G	81G					
	Terminal				LS4-G	[41G]		LS6-G	[61G]		LS8-G	[82G]					
RED ARROW	Wire															31RS	
	Terminal															LS14-R	
YELLOW ARROW	Wire															31YS	
	Terminal															LS14-Y	
FLASHING YELLOW	Wire															31Y	
	Terminal															LS14-G	
GREEN ARROW	Wire					31GS											
	Terminal					LS3-G											
DON'T WALK	Wire																
	Terminal																
WALK	Wire																
	Terminal																

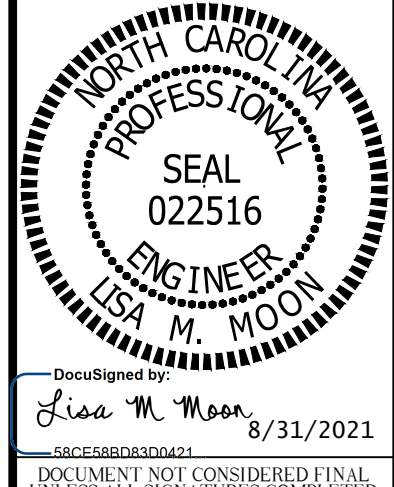
[XX\*] = TERMINAL BLOCK IN SIGNAL HEAD | LSX\* = TERMINAL IN LOAD BAY \* Denotes install load resistor. See Load Resistor Detail on this sheet.  
 ★ See pictorial of head wiring detail on this sheet, NU = Not Used



Plans Prepared For:  
**CITY OF CHARLOTTE**  
 DEPARTMENT OF  
 TRANSPORTATION  
 600 E. 4TH ST. CHARLOTTE, NC 28202  
 704.356.4117 FAX 704.356.4460

Plans Prepared By:  
**DRMP**  
 DRMP, Inc.  
 8000 Regency Parkway, Suite 110  
 Cary, NC 27513  
 NC License No. C-2476 (P) 919.860.1038

NO	DATE	BY	REVISION DESCRIPTION



01885	DJM	12-2019
SIGNAL NO.	PREPARED BY	DATE
10-2341		
INDOT ID NO.		

SHEET  
**SIG6**  
 OF  
**SIG7**

**SR 2108 (SUNSET RD) @  
 SR 2019 (PEACHTREE RD)**

**SIGNAL  
 WIRING DIAGRAM**

LOOP WIRING								
Loop Number	Wire	Terminal	Controller Detector Number	Phase	Timing		Size	Comments
					Feature	Time (sec)		
31	L31-1-W	LT1-1	1	3	Delay	15	6'X25'	65' FROM STOP BAR (LT)
	L31-1-B	LT1-2						
41	L41-1-W	LT1-3	2	4	-	-	6'X6'	130' FROM STOP BAR
	L41-1-B	LT1-4						
42	L42-1-W	LT1-5	3	4	-	-	6'X25'	@STOP BAR (LT)
	L42-1-B	LT1-6						
61	L61-1-W	LT1-7	4	6	Delay	5	6'X25'	@STOP BAR
	L61-1-B	LT1-8						
62	L61-2-R	LT1-9	5	6	-	-	6'X6'	70' FROM STOP BAR
	L61-2-B	LT1-10						
81	L81-1-W	LT1-11	6	8	-	-	6'X6'	130' FROM STOP BAR
	L81-1-B	LT1-12						

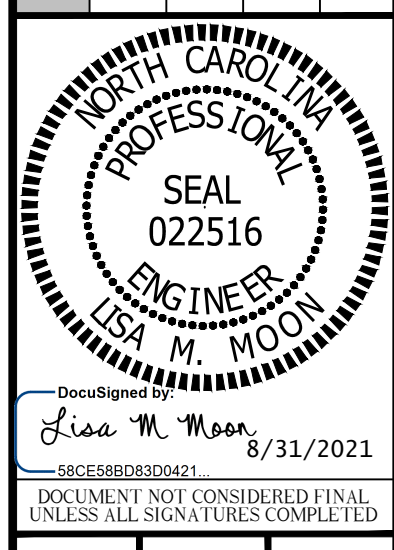
Note:  
All stopbar loops 5' beyond the stopbar unless otherwise noted.  
All loops have 3 turns.



Plans Prepared For:  
**CITY OF CHARLOTTE**  
DEPARTMENT OF  
TRANSPORTATION  
600 E. 4TH ST. CHARLOTTE, NC 28202  
704.259.4100 FAX 704.350.4600

Plans Prepared By:  
**DRMP**  
DRMP, Inc.  
8000 Regency Parkway, Suite 110  
Charlotte, NC 28226  
919.659.1038  
NC License No. C-2215

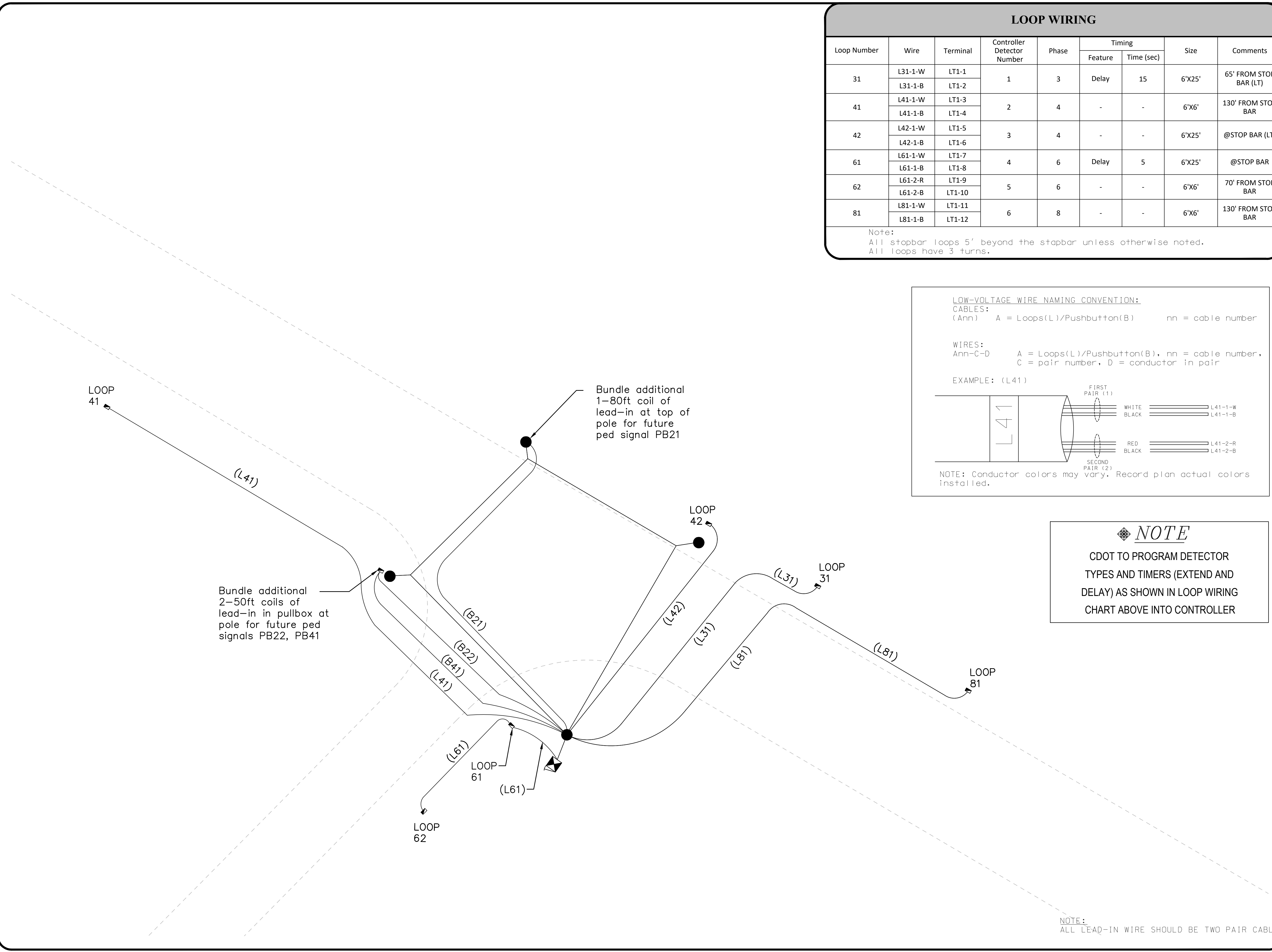
NO.	DATE	BY	REVISION DESCRIPTION



01885	10-23-11	DJM	12-2019
SIGNAL NO.	NC DOT ID NO.	PREPARED BY	DATE

SR 2108 (SUNSET RD) @  
SR 2019 (PEACHTREE RD)  
**LOW VOLTAGE  
WIRING DIAGRAM**

SHEET  
**SIG7**  
OF  
**SIG7**



**LOW-VOLTAGE WIRE NAMING CONVENTION:**

**CABLES:**  
(Ann) A = Loops(L)/Pushbutton(B) nn = cable number

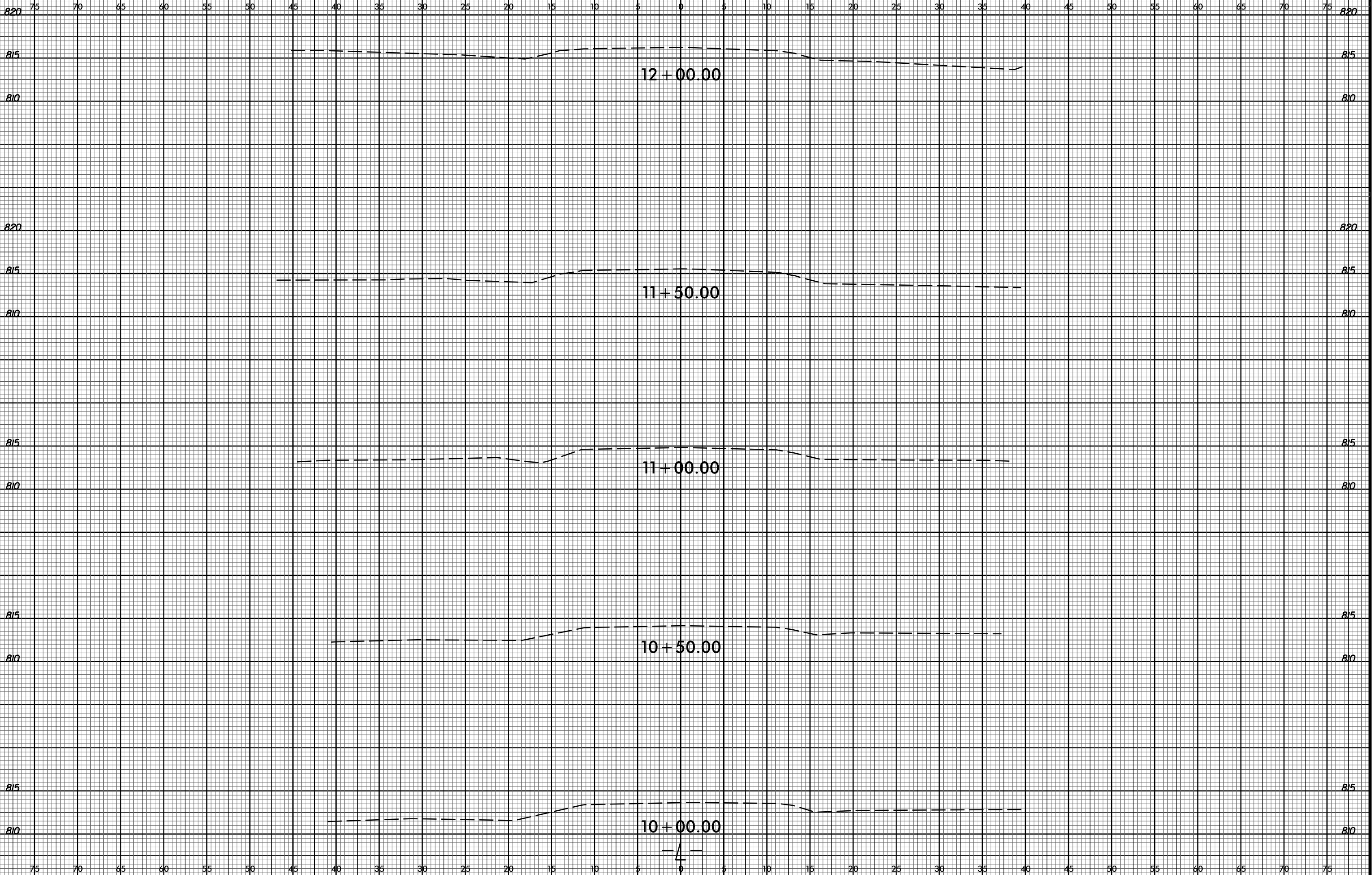
**WIRES:**  
Ann-C-D A = Loops(L)/Pushbutton(B), nn = cable number, C = pair number, D = conductor in pair

EXAMPLE: (L41)

NOTE: Conductor colors may vary. Record plan actual colors installed.

**NOTE**  
CDOT TO PROGRAM DETECTOR TYPES AND TIMERS (EXTEND AND DELAY) AS SHOWN IN LOOP WIRING CHART ABOVE INTO CONTROLLER

NOTE:  
ALL LEAD-IN WIRE SHOULD BE TWO PAIR CABLE

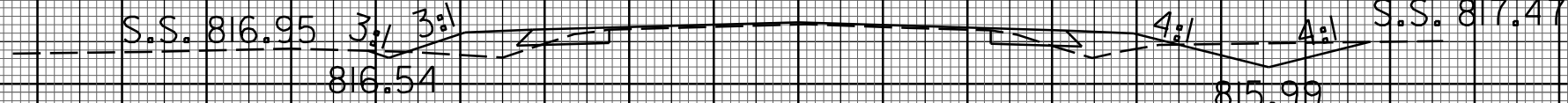




75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

825 825

820 820



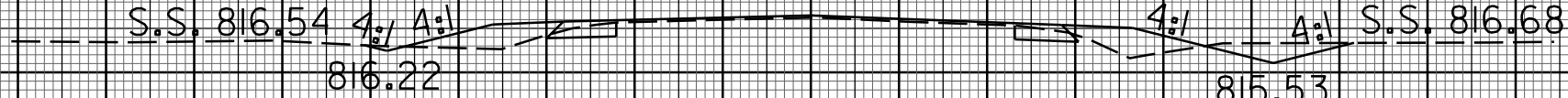
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14+00.00

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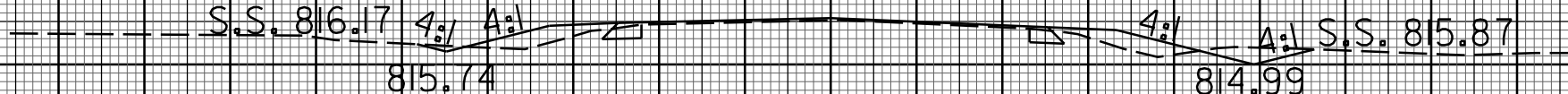


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13+50.00

820 820

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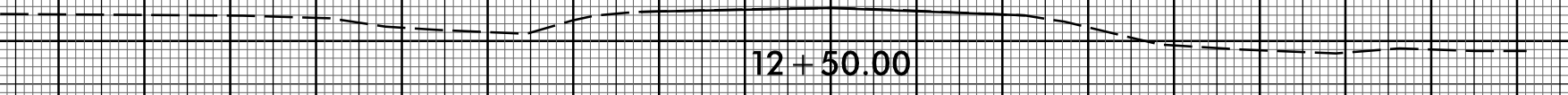


810 810

13+00.00

820 820

815 815



810 810

12+50.00

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

825 825

820 820 PEACHTREE RD.

815 815 S.S. 815.69 2:1

810 810 15+50.00

825 825

820 820 PEACHTREE RD.

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810 810 15+00.00

825 825

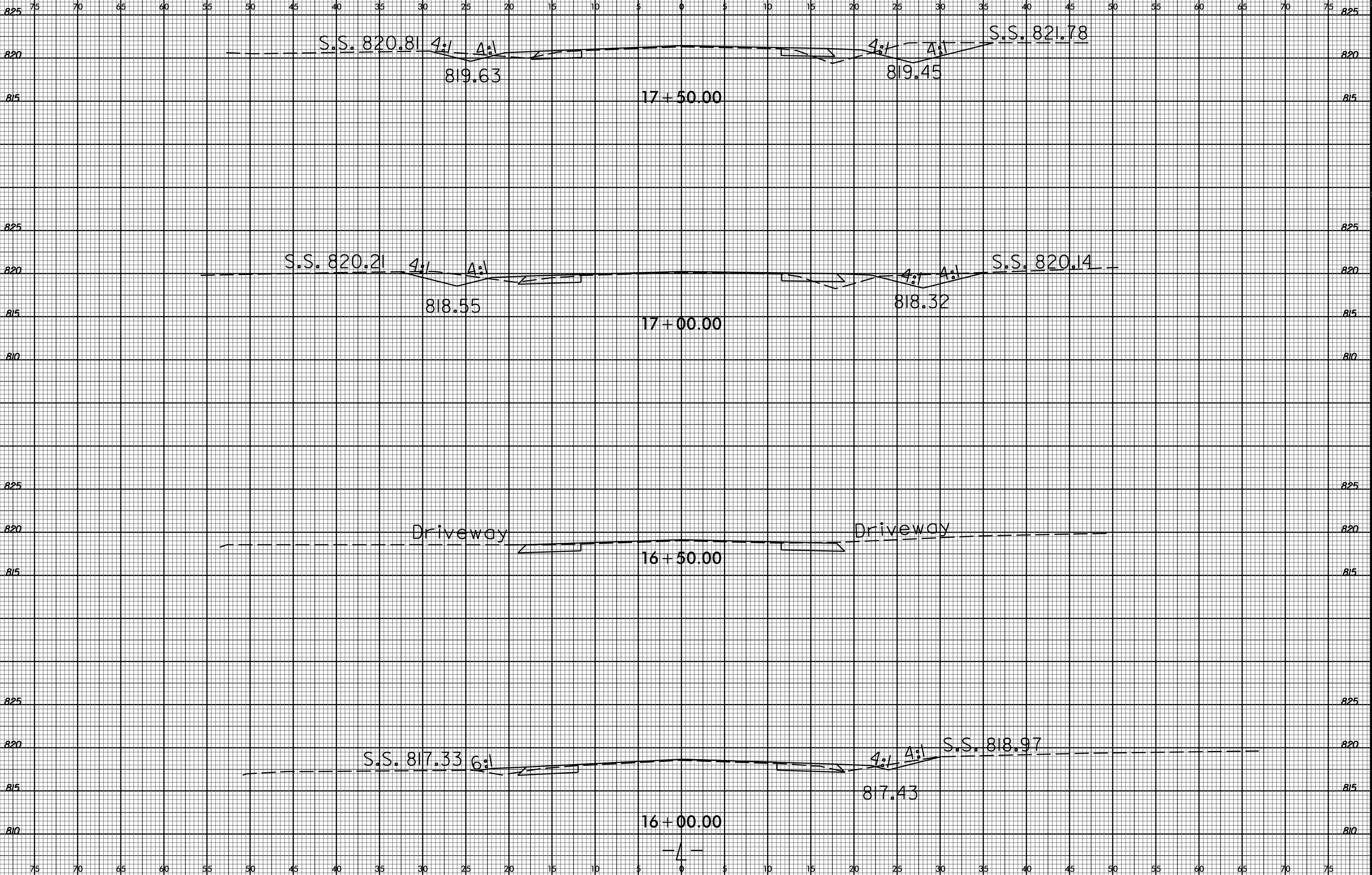
820 820 Driveway

815 815 S.S. 817.04 3:1

810 810 14+50.00

0

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

825 825

820 820

830 830

825 825

820 820

815 815

830 830

825 825

820 820

815 815

825 825

820 820

815 815

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

19+50.00

S.S. 821.78 4:1

3:1

S.S. 822.75

19+00.00

820.79

S.S. 821.65 4:1 A:1

821.13

4:1

S.S. 822.40

18+50.00

820.45

S.S. 821.35 4:1 A:1

820.40

4:1

S.S. 822.04

18+00.00

819.89

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825 825

820 820

815 815

825 825

820 820

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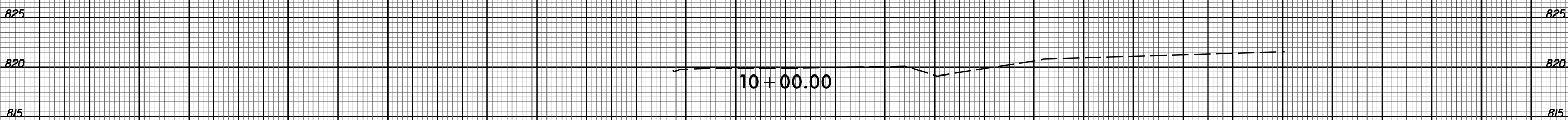
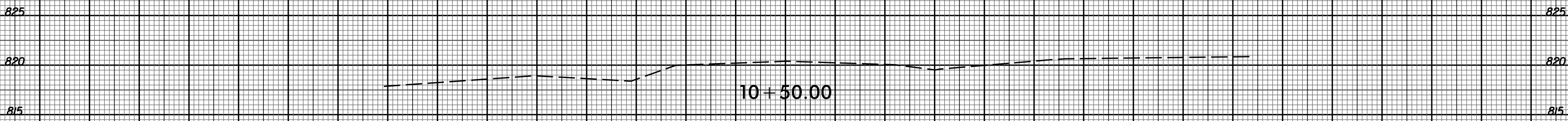
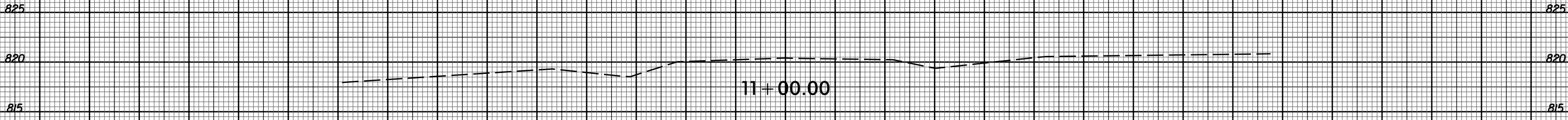
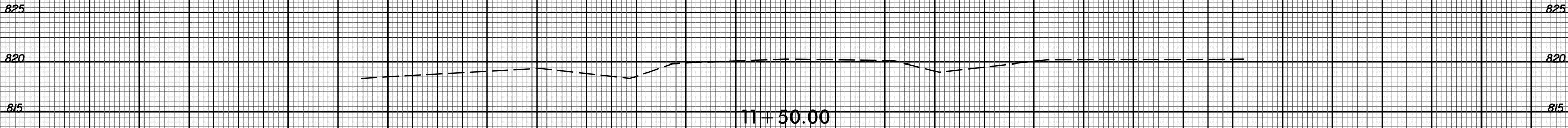
20 + 50.00

20 + 00.00

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-Y-



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

825 825

820 SUNSET RD. SUNSET RD. 820

815 13+00.00 815

825 825

820 4:1 4:1 S.S. 819.08 820

815 817.87 815

810 12+50.00 810

825 825

820 820

815 815

810 12+00.00 810

-Y-

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\$\$\$\$\$USERNAME\$\$\$\$\$